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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
809	15583	26246	1.24	7.0E-41	A034364.1	EST_HUMAN	wp04h04.x1 NCI_CGAP_K111 Homo sapiens cDNA clone IMAGE:2463895 3'
809	15583	26247	1.24	7.0E-41	A034364.1	EST_HUMAN	wp04h04.x1 NCI_CGAP_K111 Homo sapiens cDNA clone IMAGE:2463895 3'
4609	17344	28978	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
4609	17344	28977	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
6183	17981	30507	1.2	7.0E-41	11545770	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
5918	18703	31656	3.49	7.0E-41	11419208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6260	18034	32009	0.61	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
6895	17971	30528	0.68	7.0E-41	U72335.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11411	24060	37366	2.23	7.0E-41	4759445	NT	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
11631	24228	37552	1.73	7.0E-41	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12792	29271		4.35	7.0E-41	11417972	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
274	13081	25724	1.19	6.0E-41	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2104	14835	27569	2.04	6.0E-41	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4433	17189	29797	0.91	6.0E-41	BE687818.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682677 5'
7871	20566	33692	1.44	6.0E-41	BF513783.1	EST_HUMAN	UI-H-BW1-amp-b-03-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
1795	14535	27244	1.11	6.0E-41	T62628.1	EST_HUMAN	yc03e10.s1 Stragagene lung (#337210) Homo sapiens cDNA clone IMAGE:79828 3'
4087	16830		1.07	5.0E-41	4885636	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6452	19220		2.29	5.0E-41	BE067042.1	EST_HUMAN	PM4-BT0341-251199-002-F11 BT0341 Homo sapiens cDNA
392	13189		2.42	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-160200-114-g09 HT0367 Homo sapiens cDNA
1076	13834	26492	1.28	4.0E-41	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1398	14135	28810	15.51	4.0E-41	A027117.1	EST_HUMAN	ow45e06.s1 Soares, parathyroid, tumor, NbhPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, ;contains LTR5.b1 LTR5 repetitive element ;
1398	14135	28811	15.51	4.0E-41	A027117.1	EST_HUMAN	ow45e06.s1 Soares, parathyroid, tumor, NbhPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, ;contains LTR5.b1 LTR5 repetitive element ;
1403	14190	26830	1.88	4.0E-41	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
1632	14378	27065	6.08	4.0E-41	A1500408.1	EST_HUMAN	tn86c04.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2165558 3' similar to contains OFR.b1 OFR repetitive element ;
2891	15658	28302	3.55	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2891	15658	28303	3.55	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4124	16868	28493	2.24	4.0E-41	X92885.1	NT	H. sapiens DNase I hypersensitive site (HSS-3) enhancer element

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6416	19184		1.41	4.0E-41	AV758295.1	EST_HUMAN	AV758295 BM Homo sapiens cDNA clone BMFBHC08 5'
9593	22246	35430	7.24	4.0E-41	BF304683.1	EST_HUMAN	601886096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11671	24256		11.07	4.0E-41	AV710480.1	EST_HUMAN	AV710480 Cu Homo sapiens cDNA clone CUAAC007 5'
12548	26184		1.63	4.0E-41	AV708431.1	EST_HUMAN	AV708431 ADG Homo sapiens cDNA clone ADCARE02 5'
12727	24998	30971	1.69	4.0E-41	BE987118.1	EST_HUMAN	601608315F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910059 5'
927	13594	26358	2.68	3.0E-41	AB030176.1	NT	Homo sapiens PAD-H18 mRNA for peptidylarginine deiminase type II, complete cds
							Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4301	17040	29667	2.45	3.0E-41	AB026868.1	NT	H. sapiens mRNA for putative p84 CLCP protein
5404	18204	30908	7.78	3.0E-41	X87689.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
6288	19061	32043	1.59	3.0E-41	AB037808.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
7169	19846	32916	0.71	3.0E-41	AA356168.1	EST_HUMAN	EST84683 Jurkat T-cells VI Homo sapiens cDNA 5' end
11730	24323	37647	1.26	3.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
11824	24485		1.52	3.0E-41	AA609768.1	EST_HUMAN	af17710.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031947 3'
12456	24825		1.48	3.0E-41	BF125922.1	EST_HUMAN	601762940F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026081 5'
1817	14289	26987	5.17	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1951	14696	27399	1.84	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryo, 8 week I Homo sapiens cDNA 5' end
2216	14944	27684	1.54	2.0E-41	D86982.1	NT	Human mRNA for KIAA0207 gene, complete cds
2264	14890	27730	3.34	2.0E-41	X89631.1	NT	G.gorilla DNA for ZNF80 gene homolog
2831	14299	26987	4.65	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3321	16081	28731	1.41	2.0E-41	AA448549.1	EST_HUMAN	Zx08b04.r1 Soares_total_fetus_Nb21F8_9w Homo sapiens cDNA clone IMAGE:785839 5'
4579	17314	29942	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4579	17314	29943	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
							xm47708.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2687363 3' similar to TR:O70843 O70343
5141	17859	30476	0.9	2.0E-41	AW236547.1	EST_HUMAN	PPAR GAMMA COACTIVATOR 1.;
6530	19296	32300	0.76	2.0E-41	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
7672	20241	33346	8.08	2.0E-41	AF038404.1	NT	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds
7987	20682	33786	1.45	2.0E-41	M96944.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7987	20662	33787	1.45	2.0E-41	M96944.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7986	20680	33818	1.12	2.0E-41	AA328285.1	EST_HUMAN	EST31723 Embryo, 12 week I Homo sapiens cDNA 5' end
8874	21565	34710	1.61	2.0E-41	P52742	SWISSPROT	ZINC FINGER PROTEIN T35
9317	21984	35155	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9317	21984	35156	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11468	24071	37378	2.78	2.0E-41	AA372637.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
3201	15984	28616	1.05	1.0E-41	BE869735.1	EST_HUMAN	601446647F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3849803 5'

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3201	15984	28817	1.05	1.0E-41	BE669735.1	EST_HUMAN	601445847F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848803 5'
4528	17284	28897	14.08	1.0E-41	6678468	NT	Mus musculus tubulin alpha 6 (Tuba6), mRNA
6749	17918	30582	0.66	1.0E-41	H99079.1	EST_HUMAN	yt18b03.s1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:282061 3'
9318	21985	35157	1.89	1.0E-41	A1217868.1	EST_HUMAN	qf75c10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755858 3'
11111	23781	37056	1.66	1.0E-41	AW847812.1	EST_HUMAN	IL3-CT0213-180200-040-F08 CT0213 Homo sapiens cDNA
12054	24571		2.81	1.0E-41	11529291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
8418	21111		1.14	9.0E-42	BE179191.1	EST_HUMAN	RC0-HT0813-210300-032-g01 HT0813 Homo sapiens cDNA
8072	21761	34922	3.49	9.0E-42	11560161	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22604 (FLJ22604), mRNA
8072	21761	34923	3.49	9.0E-42	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22604 (FLJ22604), mRNA
450	13236	25875	7.71	8.0E-42	AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
2102	14893	27587	0.92	8.0E-42	AB026698.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12093	25277		4.4	8.0E-42	AA493896.1	EST_HUMAN	hn07c02.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943586 similar to TR:G434304 G434304 367BP EXPRESSED SEQUENCE TAG MRNA :
12111	25154		1.56	8.0E-42	AW088082.1	EST_HUMAN	xc97a04.x1 NCI_CGAP_Brn35 Homo sapiens cDNA clone IMAGE:2592174 3' similar to contains OFR.12
911	13878		2.58	7.0E-42	AL163285.2	NT	OFR repetitive element ;
9143	21874	35039	1.67	7.0E-42	A1204358.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
11126	23795	37071	1.3	7.0E-42	AA569592.1	EST_HUMAN	qf58g12.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754278 3'
11126	23795	37072	1.3	7.0E-42	AA569592.1	EST_HUMAN	ni23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914662
1849	14595	27299	3.21	8.0E-42	AF012872.1	NT	ni23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914662
1848	14586	27300	3.21	8.0E-42	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
							Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
2287	15012		3.55	8.0E-42	AW238656.1	EST_HUMAN	xp28f08.x1 NCI_CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741789 3' similar to contains L1.L1
5381	18181	30871	1.63	8.0E-42	AB028990.1	NT	repetitive element ;
5630	18181	30871	1.45	8.0E-42	AB028990.1	NT	Homo sapiens mRNA for KIAA1087 protein, partial cds
132	12947	25859	7.53	5.0E-42	AJ271735.1	NT	Homo sapiens mRNA for KIAA1087 protein, partial cds
428	13214		1.41	5.0E-42	BE217913.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region; segment 1/2
474	13260		2.57	5.0E-42	5730038	NT	hn31e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3176052 3'
476	13261		2.74	5.0E-42	5730038	NT	Homo sapiens SET domain and mafin transposase fusion gene (SETMAR) mRNA
6587	18350	32363	1.04	5.0E-42	11433063	NT	Homo sapiens SET domain and mafin transposase fusion gene (SETMAR) mRNA
6587	18350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
6587	18350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA

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6704	19819	32862	3.12	5.0E-42	11417857	NT	Homo sapiens myotubularin related protein 3 (MTMR3), mRNA
7101	19789	32894	1.59	5.0E-42	AF071589.1	NT	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds
7711	20375	33489	0.57	5.0E-42	4826977	NT	Homo sapiens reelin (RELN) mRNA
8677	21369	34515	3.65	5.0E-42	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
10920	23600	36849	2.44	5.0E-42	8923182	NT	Homo sapiens hypothetical protein FLJ20163 (FLJ20163), mRNA
736	13510	26167	5.09	4.0E-42	AF055066.1	NT	Homo sapiens MHC class 1 region
736	13510	26168	5.09	4.0E-42	AF055066.1	NT	Homo sapiens MHC class 1 region
1044	13803	26462	3.48	4.0E-42	AF189011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4171	16911	29541	1.22	4.0E-42	X59417.1	NT	H. sapiens PROS-27 mRNA
4202	16943	29570	1.07	4.0E-42	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4223	16964	29589	4.15	4.0E-42	4608496	NT	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RFX4) mRNA
4543	17278	29609	15.12	4.0E-42	4308008	NT	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
10548	23241	36475	1.56	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040-00-018-h11 ST0278 Homo sapiens cDNA
10545	23241	36476	1.56	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040-00-018-h11 ST0278 Homo sapiens cDNA
11389	23995	37297	1.5	4.0E-42	BF035327.1	EST_HUMAN	601468631F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862086 5'
1466	14213	26902	2.81	2.0E-42	BF376834.1	EST_HUMAN	RC0-TN0079-110900-024-g07 TN0079 Homo sapiens cDNA
2413	15134		2.92	2.0E-42	AW898344.1	EST_HUMAN	RC3-NN0070-270400-011-h10 NN0070 Homo sapiens cDNA
2425	15146	27879	2.22	2.0E-42	AW250059.1	EST_HUMAN	2818283.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819283 3'
5670	18465	31379	7.8	2.0E-42	AW855386.1	EST_HUMAN	EST367438 MAGC resequences, MAGC Homo sapiens cDNA
5670	18465	31380	7.8	2.0E-42	AW855386.1	EST_HUMAN	EST367438 MAGC resequences, MAGC Homo sapiens cDNA
6654	19416	32429	1.46	2.0E-42	AI052586.1	EST_HUMAN	ow83d05.x1 Soares_fetal_liver_spleen_1INFLS_S1 Homo sapiens cDNA clone IMAGE:1663417 3'
6741	22392	35596	1.32	2.0E-42	BE538918.1	EST_HUMAN	601061284F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447620 5'
9955	22603	35807	0.68	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
9955	22603	35808	0.68	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
11742	24334	37660	1.37	2.0E-42	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
717	13480	26143	1.21	1.0E-42	X57147.1	NT	Human endogenous retrovirus pHF.1 (ERV9)
1019	13779	26441	1.1	1.0E-42	AW298609.1	EST_HUMAN	U1H-B1f-efh-e-04-0-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721871 3'
1079	13837	26495	1.18	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1079	13837	26496	1.18	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1220	15563	26841	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1220	15563	26842	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds

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1998	14439	27137	1.13	1.0E-42	11423219	NT	Homo sapiens rec (LOC51201), mRNA
2546	15261	27998	1.63	1.0E-42	5174458	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
2864	15730	28380	10.26	1.0E-42	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
3695	16449	29088	2.6	1.0E-42	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
3905	16855	29286	1.17	1.0E-42	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C097
4221	16962	29567	1.92	1.0E-42	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4554	17289	29918	0.75	1.0E-42	AW813617.1	EST_HUMAN	RC3-ST0197-161039-012-e03 ST0197 Homo sapiens cDNA
4697	17431	30082	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (PI31), mRNA
4897	17431	30083	1.88	1.0E-42	5803122	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4728	17460	30097	8.02	1.0E-42	4506758	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
6044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
6044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
8988	22634	35844	4.03	9.0E-43	4757869	NT	Homo sapiens chromosome 21 segment HS21C013
637	13416	26052	19.69	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
637	13416	26053	19.69	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
684	13459	26104	8.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26105	8.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26106	8.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
5812	18408	31321	0.76	8.0E-43	H13952.1	EST_HUMAN	y08e11.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148172 5'
3632	16385	28025	6.42	7.0E-43	AW246442.1	EST_HUMAN	2822251 Aprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'
8667	21359		4.09	7.0E-43	A1936748.1	EST_HUMAN	wp88b01.x1 NCI CGAP Brm25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR:O15475
1321	14070		10.45	6.0E-43	AA491890.1	EST_HUMAN	na72406.s1 NCI CGAP Ewt1 Homo sapiens cDNA clone IMAGE:2822251 5'
2600	15314		2.25	6.0E-43	AV708201.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN ;contains LTR7 b1 LTR7 repetitive element ;
6219	18993	31959	2.24	6.0E-43		EST_HUMAN	AV708201 ADG Homo sapiens cDNA clone ADGACC10 5'
6808	19469	32492	2.09	6.0E-43	AW488997.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
9751	22402	35607	2.16	6.0E-43	AA195154.1	EST_HUMAN	h330504.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910891 3' similar to contains
11044	23714		2.55	6.0E-43	AL119186.1	EST_HUMAN	z35e06.t1 Soares Nih-MPp S1 Homo sapiens cDNA clone IMAGE:865410 5' similar to TR:G829641
138	12663		2.64	5.0E-43	AL163213.2	NT	G528841 DB1, COMPLETE CDS, contains element P7R7 repetitive element ;
							DKFp761L1712.1 761 (synonym: hary2) Homo sapiens cDNA clone DKFp761L1712 5'
							Homo sapiens chromosome 21 segment HS21C013

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
490	13275	25909	4.55	5.0E-43	AA382780.1	EST_HUMAN	EST66033 Testis Homo sapiens cDNA 5' end
2860	16618	28264	1.52	5.0E-43	AV732578.1	EST_HUMAN	AV732578 HTF Homo sapiens cDNA clone HIFANC06 5'
8213	19463	32484	1.17	5.0E-43	AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2260452 3'
6802	19463	32484	0.72	5.0E-43	AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2260452 3'
8778	21470		0.46	5.0E-43	H74277.1	EST_HUMAN	yu49g12.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:229510 5'
							zk55a02.r1 Soares pregnant uterus NbhPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
9248	21927	35098	0.47	5.0E-43	AA044450.1	EST_HUMAN	gb:D29805 N-ACETYL LACTOSAMINE SYNTHASE (HUMAN);
							zk55a02.r1 Soares pregnant uterus NbhPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
9248	21927	35099	0.47	5.0E-43	AA044450.1	EST_HUMAN	gb:D29805 N-ACETYL LACTOSAMINE SYNTHASE (HUMAN);
9264	22018	35186	4.44	5.0E-43	AA465288.1	EST_HUMAN	aa33a08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 5'
10297	22944	38158	2.31	5.0E-43	AI733244.1	EST_HUMAN	cc52c10.x5 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1669810 3' similar to TR:P90691 P90691
10335	22982	36201	1.21	5.0E-43	AL049110.1	EST_HUMAN	PV14 GENE.;
10663	23354	36583	5.29	5.0E-43	AW663007.1	EST_HUMAN	DKFZp434D0119_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D0119
10891	23571	36822	1.84	5.0E-43	W28011.1	EST_HUMAN	MR2-SIN007-280400-004-002 SIN007 Homo sapiens cDNA
							55a4 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
							Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
952	15518	26383	5.9	4.0E-43	AF003528.1	NT	
6178	17987	30502	1.02	4.0E-43	AI056338.1	EST_HUMAN	oy47h03.x1 NCI_CGAP_Brm23 Homo sapiens cDNA clone IMAGE:1669013 3'
6276	19049	32028	0.7	4.0E-43	6995009	NT	Homo sapiens glycyl-RNA synthetase (GARS), mRNA
7030	19722		2.32	4.0E-43	11416793	NT	Homo sapiens protocadherin beta 6 (PCDH6), mRNA
							qj76a02.x1 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13
8077	20771	33900	5.21	4.0E-43	AI24341.1	EST_HUMAN	MER10 repetitive element;
							qj76a02.x1 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13
8077	20771	33901	5.21	4.0E-43	AI24341.1	EST_HUMAN	MER10 repetitive element;
10213	22861	36074	1.23	4.0E-43	6005987	NT	Homo sapiens zinc finger protein 161 (ZNF161), mRNA
11275	23936	37228	1.68	4.0E-43	IT77380.1	EST_HUMAN	yu72h10.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:113927 5'
							yo06b05.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31363 5' similar to contains MER10
12030	24556		3.05	4.0E-43	R20950.1	EST_HUMAN	repetitive element;
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
1191	13943		4.59	3.0E-43	AF223391.1	NT	
1680	14434	27130	2.07	3.0E-43	X97659.1	NT	H.sapiens gene encoding La autoantigen
3558	16313	28960	1.31	3.0E-43	S68002.1	NT	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SK-H1, mRNA Mutant, 6938 nt]
4258	16909	28628	1.04	3.0E-43	AA548154.1	EST_HUMAN	ntk55d08.st NCI_CGAP_P7 Homo sapiens cDNA clone IMAGE:1017419

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5803	18593	31518	0.72	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6264	19038	32013	2.24	3.0E-43	7305360	NT	Mus musculus otogelin (Olog), mRNA
6264	19038	32014	2.24	3.0E-43	7305360	NT	Mus musculus otogelin (Olog), mRNA
6628	19360	32404	4.28	3.0E-43	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8063	20757		8.38	3.0E-43	AA458824.1	EST_HUMAN	aa88111.s1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains
8719	21411	34564	1.87	3.0E-43	7661721	NT	THR12 THR repetitive element;
8764	22416	36622	0.56	3.0E-43	11420217	NT	Homo sapiens hypothetical protein (HSA011916), mRNA
179	12991		7.67	2.0E-43	AI190764.1	EST_HUMAN	Homo sapiens similar to onitiline carboxyltransferase (H. sapiens) (LOC63648), mRNA
6383	19152	32151	1.13	2.0E-43	BE222778.1	EST_HUMAN	q661c09.x1 Soares_tests_NHT: Homo sapiens cDNA clone IMAGE:1733988 3' similar to contains P17.13
6383	19152	32152	1.13	2.0E-43	BE222778.1	EST_HUMAN	P17.13 P17.13 repetitive element;
7176	19862	32933	1.32	2.0E-43	AW207390.1	EST_HUMAN	hu53a08.x1 NCI_CGAP_Bn41 Homo sapiens cDNA clone IMAGE:3173760 3' similar to contains element
8207	20901		5.59	2.0E-43	U43701.1	NT	MER40 repetitive element;
11166	23823		4.94	2.0E-43	T03007.1	EST_HUMAN	hu53a08.x1 NCI_CGAP_Bn41 Homo sapiens cDNA clone IMAGE:3173760 3' similar to contains element
1845	14391	27080	2.94	1.0E-43	AF154836.1	NT	UI-H-B1-af1a-09-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
1845	14391	27081	2.94	1.0E-43	AF154836.1	NT	Human ribosomal protein L23a mRNA, complete cds
1700	14443	27142	1.57	1.0E-43	AL163284.2	NT	FBT65 Fetal brain, Stragene Homo sapiens cDNA clone FB1G5 3'end similar to LINE-1
2727	15434	28170	3.86	1.0E-43	BF348283.1	EST_HUMAN	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
5325	18128	30788	0.74	1.0E-43	4885544	NT	Homo sapiens chromosome 21 segment HS21C084
6514	19279	32280	8.45	1.0E-43	4507168	NT	602022313F1 NCI_CGAP_Bn87 Homo sapiens cDNA clone IMAGE:4157668 5'
6514	19279	32281	8.45	1.0E-43	4507168	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
6870	17947	30542	1.36	1.0E-43	R19751.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4) mRNA
7833	20528	33655	1.13	1.0E-43	AF175265.1	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
7865	20660		4.03	1.0E-43	AF198490.1	NT	yg40601.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to
8736	21428	34574	25.49	1.0E-43	AW863076.1	EST_HUMAN	SP-BD38_MOUSE P28656 BRAIN PROTEIN DN38 ;
10186	22837	36052	0.66	1.0E-43	AW953229.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
10894	23584	36812	8.11	1.0E-43	AI984961.1	EST_HUMAN	Homo sapiens Bq22.1 region and MTC8 (GBFA2T1) gene, partial cds
11338	24028	37332	4.78	1.0E-43	AL137984.1	EST_HUMAN	EST375749 IMAGE resequences, MAGH Homo sapiens cDNA
11976	24520		3.04	1.0E-43	AI675416.1	EST_HUMAN	EST365289 IMAGE resequences, MAGB Homo sapiens cDNA
12253	24699	31079	1.89	1.0E-43	AI675416.1	EST_HUMAN	wb7n01.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2494705 3'
							Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mRNA
							DKFZp761D1015_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761D1015 5'
							wb99b04.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2313775 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12469	24835	31032	3.41	8.0E-44	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
870	13639	26309	6.23	8.0E-44	A1222985.1	EST_HUMAN	qf23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
870	13639	26310	6.23	8.0E-44	A1222985.1	EST_HUMAN	qf23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
8437	21129	34266	2.67	8.0E-44	X94354.1	NT	H. sapiens DNA for Ccne cGMP-PDE gene
10236	22884	36097	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10238	22884	36098	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11117	23787	37064	3.78	8.0E-44	Y10498.2	NT	Homo sapiens mRNA for thymidine kinase, partial
11688	24283	37606	1.36	8.0E-44	L29139.1	NT	Homo sapiens myosin mRNA, partial cds
12207	24673	31073	4.09	8.0E-44	11627389	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
12248	25009	30976	1.38	8.0E-44	11418086	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12589	25186	30808	2.55	8.0E-44	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
644	13423		0.69	7.0E-44	R06035.1	EST_HUMAN	ye89e01.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:124920 5'
2228	14856	27696	1.06	7.0E-44	5031886	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP), mRNA
2666	15732	28381	2.58	7.0E-44	AF048728.1	NT	Homo sapiens minisatellite ms32 repeat region
2666	15732	28382	2.58	7.0E-44	AF048728.1	NT	Homo sapiens minisatellite ms32 repeat region
3843	16694	29231	2.54	7.0E-44	AF163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4217	16958	29561	1.12	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
4217	16958	29562	1.12	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
5142	17860	30476	1.01	7.0E-44	4505646	NT	Homo sapiens chromosome 21 unknown mRNA
8085	20776	33908	2.26	7.0E-44	AU159839.1	EST_HUMAN	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
6012	18783	31756	0.94	6.0E-44	Z20948.1	EST_HUMAN	AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000498 3'
11781	24372	37702	1.76	6.0E-44	AW954050.1	EST_HUMAN	HSAAADEVJ.P, Human foetal Brain Whole tissue Homo sapiens cDNA
296	13102		3.3	5.0E-44	AJ288880.1	NT	EST368120 MAGE resequences, MAGE Homo sapiens cDNA
323	13124		2.72	5.0E-44	AJ288880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
							Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
							bt40d02.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OFR.t1
7788	20483	33607	4.96	5.0E-44	AI658523.1	EST_HUMAN	OFR OFR repetitive element ;
9284	22038		2.34	5.0E-44	AU124571.1	EST_HUMAN	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'
3409	16167	28816	3.76	4.0E-44	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7370	20050	33131	0.68	4.0E-44	BE883178.1	EST_HUMAN	601608601F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3910152 5'
8169	20863	33995	0.76	4.0E-44	LZ1948.1	NT	Human fibrillin (FBN1) locus polymorphism
8777	21469		0.51	4.0E-44	BE176618.1	EST_HUMAN	RC3-H10585-010400-023-008 HT0585 Homo sapiens cDNA
11202	23666	37153	5.39	4.0E-44	U90878.1	NT	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds
3094	16959	28500	5.77	3.0E-44	AA169851.1	EST_HUMAN	zp18b05.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609777 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3870	16820	29280	1.37	3.0E-44	AA337234.1	EST_HUMAN	EST42289 Endometrial tumor Homo sapiens cDNA 5' end similar to similar to alpha-1-antitrypsinase F
9419	22097	36289	0.65	3.0E-44	AF005273.1	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
1027	13787	26446	2.64	2.0E-44	4826685	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1027	13787	26447	2.64	2.0E-44	4826685	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1185	13837	26602	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1185	13837	26603	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1289	14038	26711	4.06	2.0E-44	AF133588.1	NT	Homo sapiens RAB38 (RAB38) mRNA, complete cds
1347	14095	26770	1.3	2.0E-44	BE465326.1	EST_HUMAN	hwl4g06 x1 NCJ CGAP L u24 Homo sapiens cDNA clone IMAGE:3182838 3' similar to SW:OXYB_HUMAN
2147	14877	27612	2.22	2.0E-44	AF070651.1	NT	P22059 OXYSTEROL-BINDING PROTEIN ;
2616	15327		1.31	2.0E-44	5901933	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3463	16219	28873	1.13	2.0E-44	DB7676.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
4531	17266	29889	1.54	2.0E-44	AW684379.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
6004	18785	31747	1.87	2.0E-44	11449901	NT	PM4-SN0016-120500-003-004 SN0016 Homo sapiens cDNA
							Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), mRNA
6758	17927	30582	3.31	2.0E-44	AF038988.1	NT	Homo sapiens general transcription factor 2-1 (GTF2) mRNA, alternatively spliced product, complete cds
7313	19996	33074	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
7313	19996	33075	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8327	21020	34155	0.67	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8327	21020	34156	0.67	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8517	21209	34352	1.58	2.0E-44	BE389058.1	EST_HUMAN	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
							601286914F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613586 5'
11893	24456		1.62	2.0E-44	BE244902.1	EST_HUMAN	TCBAP1E2795 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens
12760	25020		1.4	2.0E-44	11528293	NT	cDNA clone TCBAP2795
51	12880	25507	2.43	1.0E-44	7657334	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
51	12880	25508	2.43	1.0E-44	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK), mRNA
568	13347	25875	2.44	1.0E-44	AW853132.1	EST_HUMAN	Homo sapiens Mischapen/NIK-related kinase (MINK), mRNA
1175	13928		1.9	1.0E-44	AW994803.1	EST_HUMAN	RC1-CT0249-030300-028-h12 CT0249 Homo sapiens cDNA
1567	14314		5.78	1.0E-44	AL163303.2	NT	RC1-BN0039-110300-012-b01 BN0039 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C103
2221	14949	27687	3.74	1.0E-44	AA434554.1	EST_HUMAN	zws3d02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to
							contains THR.13 THR repetitive element ;
2221	14949	27688	3.74	1.0E-44	AA434554.1	EST_HUMAN	zws3d02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to
							contains THR.13 THR repetitive element ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2280	15590	27746	0.98	1.0E-44	AA398099.1	EST_HUMAN	z88g11.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:729478 5'
2763	15468	28211	1.44	1.0E-44	AF196779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 8, and synaptophysin genes, complete cds; and L-type calcium channel a2
3712	16465		3.73	1.0E-44	AA455869.1	EST_HUMAN	ea01c09.31 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811984 3'
5048	17767	30385	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
5048	17767	30386	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
8163	20857	33988	0.98	1.0E-44	AW867073.1	EST_HUMAN	EST379147 IMAGE resequences, MAGJ Homo sapiens cDNA
8163	20857	33989	0.88	1.0E-44	AW867073.1	EST_HUMAN	EST379147 IMAGE resequences, MAGJ Homo sapiens cDNA
8544	21236	34380	0.88	1.0E-44	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8924	21615	34789	0.69	1.0E-44	AJ337163.1	EST_HUMAN	q88g07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2009628 3'
10936	23616		4.04	1.0E-44	AV714608.1	EST_HUMAN	AV714608 DCB Homo sapiens cDNA clone DCBBYE03 5'
11516	24116	37427	3.92	1.0E-44	10092664	NT	Homo sapiens Sush1 domain (SCR repeat) containing (BK65A6.2), mRNA
11583	24182	37496	3.17	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA
11583	24182	37497	3.17	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA
4539	17274	28906	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4539	17274	28907	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6352	19317	32323	1.31	9.0E-45	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
2527	15243	27982	3.12	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5023	17744	30355	6.41	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
6414	19182	32181	0.68	8.0E-45	AW882763.1	EST_HUMAN	OMG-NIN0005-130300-283-509 NN0005 Homo sapiens cDNA
8006	20701	33830	0.91	8.0E-45	AA377985.1	EST_HUMAN	EST90883 Synovial sarcoma Homo sapiens cDNA 5' end
1545	14291		1.01	6.0E-45	A1675425.1	EST_HUMAN	wb99d06.x1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2313802 3' similar to contains L1.L1 L1 repetitive element;
3960	16709		4.09	6.0E-45	AW157570.1	EST_HUMAN	au83h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782809 3' similar to SW_R13A_HUMAN P40428 60S RIBOSOMAL PROTEIN L13A;
12555	26378		1.65	6.0E-45	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
872	13641		1.03	5.0E-45	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1995	14731	27453	3.65	5.0E-45	BF333627.1	EST_HUMAN	CH4-CN0044-180200-515-601 CN0044 Homo sapiens cDNA
3204	15967	28621	1.79	5.0E-45	A1523768.1	EST_HUMAN	tg94f07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116483 3' similar to SW.PAX1_MOUSE
6425	18224	30935	8.76	5.0E-45	AA397781.1	EST_HUMAN	P08084 PAIRED BOX PROTEIN PAX-1;
6929	18713	31669	1.31	5.0E-45	Y18933.1	NT	z172d03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TAR1 repetitive element;
						EST_HUMAN	Homo sapiens MCP-1 gene and enhancer region

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5928	18713	31670	1.31	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5974	18766	31717	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
5974	18766	31718	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6086	18874	31842	1.02	5.0E-45	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6096	18874	31843	1.02	5.0E-45	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8174	20868	34000	0.73	5.0E-45	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8939	21630	34773	1.95	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA
11697	24292	37617	2.69	5.0E-45	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
1121	13877	26536	9.58	4.0E-45	X95826.1	NT	H. sapiens ART4 gene
2289	15014	27750	2.42	4.0E-45	BE265622.1	EST_HUMAN	601194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3638425 5'
8855	21546		0.82	4.0E-45	AA228220.1	EST_HUMAN	nc26e07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1 repetitive element:
4098	16086		1.35	3.0E-45	T71480.1	EST_HUMAN	yd5507.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:110245 5'
6142	18920	31890	1.36	3.0E-45	6753651	NT	Mus musculus dynein, axon, heavy chain 11 (Dnaht11), mRNA
6142	18920	31891	1.36	3.0E-45	6753651	NT	Mus musculus dynein, axon, heavy chain 11 (Dnaht11), mRNA
8350	21043		1.4	3.0E-45	AV723976	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
8690	21382	34528	3.74	3.0E-45	4758451	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA
10206	22854	36069	13.43	3.0E-45	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
10206	22854	36069	13.43	3.0E-45	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12670	25314		2.35	3.0E-45	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2506	15223		2.21	2.0E-45	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C01B
3029	15785	28441	1.22	2.0E-45	AJ243213.1	NT	Homo sapiens partial 6-HT 4 receptor gene, exons 2 to 5
6429	19197	32184	5.15	2.0E-45	L01685.1	NT	Human eosinophil Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1
7510	20181	33274	1.22	2.0E-45	BE782184.1	EST_HUMAN	601467793F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3870838 5'
8314	21007	34145	0.78	2.0E-45	AW834834.1	EST_HUMAN	RCO-L T0001-150200-032-d11 LT0001 Homo sapiens cDNA
9486	22138	36318	0.48	2.0E-45	AI636786.1	EST_HUMAN	ts56a01.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2232552 3'
10705	25130	36633	18.28	2.0E-45	BE834350.1	EST_HUMAN	MRQ-HT0923-190800-201-a02 HT0923 Homo sapiens cDNA
11129	23797	37073	4.16	2.0E-45	AA458770.1	EST_HUMAN	aa87f12.r1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838319 5' similar to
11489	24089	37400	1.76	2.0E-45	AW270280.1	EST_HUMAN	TR:G1144569 G1144569 R-SLY1.;
11488	24089	37401	1.75	2.0E-45	AW270280.1	EST_HUMAN	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
12711	24987		3.93	2.0E-45	11418157	NT	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
120	13185		-1.6	1.0E-45	BE389855.1	EST_HUMAN	Homo sapiens cadherin channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
						EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608183 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
400	13185		2.17	1.0E-45	BE388955.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608183 5'
480	13245	25887	1.38	1.0E-45	4506412	NT	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA
1151	13906	28569	1.79	1.0E-45	7857290	NT	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA
3101	15866	28507	7.42	1.0E-45	U82189.1	NT	Human pro-a2 chain of collagen type XI (COL11A2) gene, complete cds
3483	16240	28937	1.38	1.0E-45	8659598	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
3550	16315	28992	1.19	1.0E-45	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
4442	17178	29804	5.01	1.0E-45	BE396633.1	EST_HUMAN	601289116F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3819803 5'
4671	17411		1.04	1.0E-45	H57443.1	EST_HUMAN	601289116F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3819803 5'
7830	20625	33752	0.77	1.0E-45	11422236	NT	yo05b02.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:204363 5'
7830	20625	33753	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8505	21187	34341	0.96	1.0E-45	D87875.1	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
9019	21709	34861	5.08	1.0E-45	BE887843.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
9422	22100	35272	1.22	1.0E-45	AB002287.1	NT	601511228F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912535 5'
11734	24327	37861	1.33	1.0E-45	7018570	NT	Human mRNA for KIAA0289 gene, partial cds
12087	24592	31125	6.83	1.0E-45	11418099	NT	Homo sapiens alpha-catenin-like protein (Vr22), mRNA
12263	24708		11.18	1.0E-45	11526291	NT	Homo sapiens protein kinase C, alpha binding protein (PRKGABP), mRNA
12269	24711		5.28	1.0E-45	11418177	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12690	24969	30981	2.6	1.0E-45	11418157	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
8127	20821	33968	1.7	9.0E-46	9910283	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1 subunit (CACNA1), mRNA
8532	21224		5.86	9.0E-46	AL163209.2	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
10378	23024	38239	11.23	9.0E-46	AW246984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C009
2443	15182	27899	13.53	8.0E-46	A1433281.1	EST_HUMAN	2822449.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'
2443	15182	27899	13.53	8.0E-46	A1433281.1	EST_HUMAN	t3208.x1 NCJ_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132189 3' similar to gb:J00314_rna2
7953	20848		6.69	8.0E-46	BE167244.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
2232	14980	21700	1.03	7.0E-46	U46007.1	NT	TUBULIN BETA-1 CHAIN (HUMAN);
4541	17276		3.38	7.0E-46	BE386165.1	EST_HUMAN	RC5-HT0508-280200-012-C12 HT0508 Homo sapiens cDNA
4755	17487		1.33	7.0E-46	BE064386.1	EST_HUMAN	Rattus norvegicus espin mRNA, complete cds
5951	18733	31692	4.01	7.0E-46	8922708	NT	601277292F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618119 5'
6402	19171	32170	1.14	7.0E-46	BF105845.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2759	15464	28207	3.89	6.0E-46	A1894381.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
							601822835F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4042736 5'
							wm3108.x1 NCJ_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437576 3' similar to contains MER19.12
							MER19 repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2759	15464	28208	3.99	6.0E-46	AI884381.1	EST_HUMAN	wm31f08.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER18.12 MER19 repetitive element ;
6038	18818	31779	10.94	6.0E-46	AI635448.1	EST_HUMAN	ts58h10.x1 NCL_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:O60363 O60363 SA GENE ;
7116	19804	32868	0.72	6.0E-46	AW513244.1	EST_HUMAN	xo42e04.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:U08069 DNAAJ PROTEIN HOMOLOG 2 (HUMAN);
11364	23175		2.04	6.0E-46	BE784971.1	EST_HUMAN	601478409F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3880985 5'
199	13012		8.9	5.0E-46	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3519	16275	28929	1.07	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
3519	16275	28930	1.07	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
6636	19398	32413	1.86	5.0E-46	BF590442.1	EST_HUMAN	naa38f07.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3288757 3' similar to TR:O75202 O75202 HOMOLOG OF RAT KIDNEY-SPECIFIC ;
6842	19542	32570	4.29	5.0E-46	BF347229.1	EST_HUMAN	602021164F1 NCL_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4156670 5'
6895	19887	32736	0.62	5.0E-46	AW562253.1	EST_HUMAN	QV4-S10212-120100-075-709 ST0212 Homo sapiens cDNA
8515	22168	35350	0.47	5.0E-46	AA398381.1	EST_HUMAN	z62e08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728928 3'
828	13405		1.4	4.0E-46	AA601143.1	EST_HUMAN	nc54e09.s1 NCL_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X63741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1699	14442	27140	6.86	4.0E-46	AW770544.1	EST_HUMAN	h186c03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element ;
1699	14442	27141	6.86	4.0E-46	AW770544.1	EST_HUMAN	h186c03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element ;
2743	15449	28188	2.62	4.0E-46	M18048.1	NT	Human endogenous retrovirus RTVL-H2
4394	17121	28763	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
4394	17121	29754	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
6350	18153	30834	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
6350	18153	30835	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12513	24863	31014	2.71	4.0E-46	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
2155	14855	27618	0.9	3.0E-46	5453620	NT	Homo sapiens solute carrier family 35 (CNP-sialic acid transporter), member 1 (SLC35A1), mRNA
2429	15150	27894	0.95	3.0E-46	AF160212.1	NT	Homo sapiens VAMP-associated 33 kDa protein mRNA, complete cds
4392	17100	29735	0.79	3.0E-46	4503376	NT	Homo sapiens mitogen-activated protein kinase kinase 3 (MAP4K3), mRNA
4724	17456	30091	1.2	3.0E-46	Z73680.1	NT	H.sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; VLambda

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4724	17456	30092	1.2	3.0E-46	Z73660.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Lambda: VLambda
8947	21339	34483	7.59	3.0E-46	A1831462.1	EST_HUMAN	wj49c04.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406160 3' similar to contains THR.b2
11564	24163	37474	2.19	3.0E-46	D31765.1	NT	THR repetitive element:
817	13588	28255	7.64	2.0E-46	AA458646.1	EST_HUMAN	Human mRNA for KIAA0061 gene, partial cds
1554	14301		1.55	2.0E-46	AA678246.1	EST_HUMAN	ne08a09.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
1637	14383	27070	3.43	2.0E-46	U78027.1	NT	repetitive element:
4917	17645	30258	1.2	2.0E-46	AA399286.1	EST_HUMAN	z127a11.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431998 3'
7384	20064	33142	7.67	2.0E-46	9910569	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
7968	20663		1.46	2.0E-46	BE869161.1	EST_HUMAN	(L44L) and FTP3 (FTP3) genes, complete cds
12575	25179		1.5	2.0E-46	H48391.1	EST_HUMAN	z159e02.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:726650 5' similar to SW:RSP1_MOUSE
12575	25179	30802	3.38	2.0E-46	AW27214.1	EST_HUMAN	Q01730 RSP-1 PROTEIN:
1211	13661	26628	7.67	1.0E-46	4502694	NT	Mus musculus sperm tail associated protein (Stap), mRNA
1568	14313	26999	1.23	1.0E-46	7662177	NT	601445137E1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849287 5'
1568	14313	26999	1.23	1.0E-46	7662177	NT	y32a01.r1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:206977 5'
1568	14313	26999	1.23	1.0E-46	7662177	NT	xq78h03.x1 NCL_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2758789 3'
1568	14313	26999	1.23	1.0E-46	7662177	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
2279	15005	27745	3.44	1.0E-46	AW978516.1	EST_HUMAN	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2399	15120	27857	3.06	1.0E-46	H97330.1	EST_HUMAN	EST390625 MAGIE resequences, MAGP Homo sapiens cDNA
3243	16005	28654	4.55	1.0E-46	AA631912.1	EST_HUMAN	EST48b095 WATM1 Homo sapiens cDNA clone 48b095
4818	17549		3.17	1.0E-46	AB023197.1	NT	np78b02.s1 NCL_CGAP_P2 Homo sapiens cDNA clone IMAGE:1132395 similar to gb:X76717 H.sapiens
5613	18409	31322	6.88	1.0E-46	BF194707.1	EST_HUMAN	MT-11 mRNA, (HUMAN);
5888	25080	31617	6.14	1.0E-46	8923762	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
5888	25080	31618	6.14	1.0E-46	8923762	NT	7692b01.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3643705 3'
10770	18409	31322	5.27	1.0E-46	BF194707.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
11747	24338	37665	1.53	1.0E-46	AW023178.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
11747	24338	37666	1.53	1.0E-46	AW023178.1	EST_HUMAN	7692b01.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3643705 3'
12044	24564	31115	2.28	1.0E-46	BF531102.1	EST_HUMAN	df50e03.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486861 5'
12044	24564	31116	2.28	1.0E-46	BF531102.1	EST_HUMAN	df50e03.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486861 5'
12778	26032		2.37	1.0E-46	AV715377.1	EST_HUMAN	602072264F1 NCL_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215398 5'
750	13522		6.18	9.0E-47	AJ271735.1	NT	602072264F1 NCL_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215398 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4879	17606	30229	3.02	9.0E-47	AW770928.1	EST_HUMAN	H89604.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008534 3' similar to TR:O75703 O75703
6284	19067	32037	0.6	9.0E-47	11425439	NT	HYPOTHETICAL 12.4 KD PROTEIN. ;
12631	25270	30725	2	9.0E-47	11417966	NT	Homo sapiens zinc finger protein ZNF286 (ZNF286), mRNA
1801	14541	27252	6.88	8.0E-47	Y18536.1	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1801	14541	27253	6.88	8.0E-47	Y18536.1	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
2722	15428	28167	1.04	8.0E-47	5453956	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
3024	15790	28438	1.99	8.0E-47	AJ228043.1	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), epsilon isoform (PPP2R5E) mRNA
3613	16366	29009	0.68	8.0E-47	AB041926.1	NT	Homo sapiens p59 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3613	16366	29010	0.68	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
12604	25169		1.38	7.0E-47	AV683284.1	EST_HUMAN	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
2550	15265	28000	1.66	6.0E-47	AL163246.2	NT	AV683284 GKC Homo sapiens cDNA clone GKASH11 5'
8692	21284	34423	0.49	6.0E-47	U77054.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9176	21846	36012	6.76	6.0E-47	AIG95189.1	EST_HUMAN	HSU77054 Human Homo sapiens cDNA clone N7
9812	22285	35450	0.68	6.0E-47	AB042824.1	NT	ts88h02.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2896659 3'
9812	22285	35451	0.68	6.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
6482	19249	32249	6.67	5.0E-47	11423972	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
10696	23387		5.27	5.0E-47	M78590.1	EST_HUMAN	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homologue) (CDC37), mRNA
1379	14128	26801	3.29	4.0E-47	4557556	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homologue) (CDC37), mRNA
6733	19587	32599	1.9	4.0E-47	BE638986.1	EST_HUMAN	EST00738 Fetal brain, Strategene (ccl5936206) Homo sapiens cDNA clone HFBFCF07
8379	21072	34210	2.42	4.0E-47	BE616483.1	EST_HUMAN	Homo sapiens E1A binding protein p300 (EP300) mRNA
8379	21072	34211	2.42	4.0E-47	BE616483.1	EST_HUMAN	MR4-TN0108-280800-201-404 TN0108 Homo sapiens cDNA
8516	21208	34351	0.61	4.0E-47	AW993777.1	EST_HUMAN	G01280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
11635	24232		2.83	4.0E-47	AW515608.1	EST_HUMAN	G01280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
531	13315	25960	2.05	3.0E-47	BE907634.1	EST_HUMAN	RC3-BN0034-220300-015-105 BN0034 Homo sapiens cDNA
531	13315	25951	2.05	3.0E-47	BE907634.1	EST_HUMAN	xx68507.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2848597 3' similar to SW:INT6_MOUSE
799	13571	26232	6.45	3.0E-47	N57483.1	EST_HUMAN	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-9, [1];
924	13691	26355	10.25	3.0E-47	AL163284.2	NT	G01497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
3296	16058	28707	0.79	3.0E-47	4504116	NT	G01497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
3948	16698		5.77	3.0E-47	U83181.1	NT	yy64b04.s1 Scores_multiple_sclerosis_2NBHMSF Homo sapiens cDNA clone IMAGE:277327 3'
4329	17088	28696	1.32	3.0E-47	M12859.1	NT	Homo sapiens chromosome 21 segment HS21C084
5922	18707	31659	5.41	3.0E-47	AW408800.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
							Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds
							Human T-cell receptor alpha-chain mRNA from JM cell line, complete cds
							U1HF-BMO-adv-d-07-Q-UJ.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3083205 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5922	18707	31660	5.41	3.0E-47	AW408800.1	EST_HUMAN	U1-HF-BMO-adv-d-07-0-UJr1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 6'
6469	18236		1.76	3.0E-47	A122413.1	EST_HUMAN	q104607.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843718 3'
8732	21424	34569	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST376869 MAGe resequences, MAGH Homo sapiens cDNA
8732	21424	34570	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST376869 MAGe resequences, MAGH Homo sapiens cDNA
143	12958	25600	1.61	2.0E-47	4505318	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
947	13713	26377	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
947	13713	26378	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1560	14307		0.98	2.0E-47	AI969279.1	EST_HUMAN	wq66b02.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2479851 3'
1568	14334	27022	1.75	2.0E-47	7682109	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
1673	14418	27111	3.41	2.0E-47	AA524514.1	EST_HUMAN	ng43h12.s1 NCI_CGAP_C63 Homo sapiens cDNA clone IMAGE:937607 3'
4313	17052	28877	2	2.0E-47	4504868	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNFB), mRNA
4351	17090	29722	1.5	2.0E-47	AA569592.1	EST_HUMAN	nt23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
4351	17090	29723	1.5	2.0E-47	AA569592.1	EST_HUMAN	nt23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
4471	17206	29832	1.66	2.0E-47	5174648	NT	Homo sapiens Rev/Rex activation domain binding protein-related (RAB-R) mRNA
4761	17493	30121	1.3	2.0E-47	AW965166.1	EST_HUMAN	EST377239 MAGe resequences, MAGI Homo sapiens cDNA
5998	18490	31411	1.12	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signaling 8 variant form (RGS8) mRNA, complete cds
5887	18673	31615	1.23	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
5987	18673	31616	1.23	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
7598	25116		1.43	2.0E-47	L09731.1	NT	Homo sapiens 5-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion
7864	20559	33685	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
7884	20559	33686	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8618	21310	34452	1.67	2.0E-47	AF071771.1	NT	Homo sapiens SPH-binding factor mRNA, partial cds
9389	22051	35222	0.77	2.0E-47	11528136	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11451	23218	36451	1.27	2.0E-47	M76125.1	NT	Human tyrosine kinase receptor (ad) mRNA, complete cds
12077	26312	30709	1.75	2.0E-47	R42423.1	EST_HUMAN	yf82e03.s1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:28668 3' similar to contains OFR repetitive element;
1384	14131	26804	7.35	1.0E-47	A1333429.1	EST_HUMAN	qp98h103.x1 Soares_fetal Jung_NbHL19W Homo sapiens cDNA clone IMAGE:1931189 3'
5017	17798	30347	1.96	1.0E-47	AW613906.1	EST_HUMAN	RC3-ST0197-130400-017-N02 ST0197 Homo sapiens cDNA
6944	19426	32441	6.79	1.0E-47	AI890886.1	EST_HUMAN	at19a03.x1 Barslead acrla HPLR36 Homo sapiens cDNA clone IMAGE:2366688 3' similar to gb:M22995
8767	21459		0.59	1.0E-47	AW694648.1	EST_HUMAN	RAS-RELATED PROTEIN RAP-1A (HUMAN);
10254	22902	36112	2.28	1.0E-47	L30115.1	NT	h184a11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978972 3' similar to gb:M26328 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
						NT	Papio hamadryas alcohol dehydrogenase class I (ADH) gene, 5' region

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3544	18299	28950	0.82	9.0E-48	BF359947.1	EST_HUMAN	CM2-MT0100-310700-290-405 MT0100 Homo sapiens cDNA
5594	18389	31299	0.86	9.0E-48	BE888198.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
5594	18389	31300	0.86	9.0E-48	BE888198.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
6010	18791	31754	0.66	9.0E-48	A833168.1	EST_HUMAN	at76f09.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:O60844
6131	18909	31877	0.64	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11080	23730	37002	3.09	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1228	13978		1.44	8.0E-48	4501900	NT	601310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1229	13978		1.7	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	16897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	hK61b03.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
3911	16861	29302	0.79	8.0E-48	4504116	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13264		1.27	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
479	13264		17.09	7.0E-48	AB033035.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
1483	14230	26916	0.98	7.0E-48	6912719	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1634	14380	27087	3.89	7.0E-48	5730038	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
6460	19227	32227	27.21	7.0E-48	11418831	NT	Homo sapiens SET domain and mafin transposase fusion gene (SETMAR) mRNA
5967	18749	31710	0.91	6.0E-48	AB008955.1	NT	Homo sapiens mRNA for AIE-75, complete cds
6698	19605	32845	1.08	6.0E-48	11420895	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7365	25111	33123	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7365	25111	33124	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9022	21712	34866	2.07	6.0E-48	AF026816.1	NT	Homo sapiens putative oncogene protein mRNA, partial cds
9441	22119	35298	1.74	6.0E-48	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
9588	22241	35425	3.2	6.0E-48	AA189080.1	EST_HUMAN	zq45b06.s1 Stragene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element
3304	17876	28713	1.94	5.0E-48	4826897	NT	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
8474	21166	34310	1.25	5.0E-48	BE084410.1	EST_HUMAN	RC4-BT0311-141199-011-n06 BT0311 Homo sapiens cDNA
11603	24202	37524	1.39	5.0E-48	AW890299.1	EST_HUMAN	MRO-NT0039-010500-002-408 NT0039 Homo sapiens cDNA
10878	23558	36805	3.96	4.0E-48	AI620420.1	EST_HUMAN	tu47a02.x1 NCI CGAP_P28 Homo sapiens cDNA clone IMAGE:2264154 3'
1384	14112	28780	1.27	3.0E-48	AV690984.1	EST_HUMAN	AV690984 GKC Homo sapiens cDNA clone GKODRE12 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1969	14705	27422	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1969	14705	27423	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3622	18375	29017	0.75	3.0E-48	AW664531.1	EST_HUMAN	h114p12x1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872255 3' similar to SW:DCRB_HUMAN
5804	18594	31519	2.47	3.0E-48	BE084571.1	EST_HUMAN	P56555 DOWN SYNDROME CRITICAL REGION PROTEIN B.;
6919	18655	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-080400-201-a10 BT0857 Homo sapiens cDNA
8290	20984		3.41	3.0E-48	AA659930.1	EST_HUMAN	Human endogenous retrovirus HERV-P-T47D
10784	23467	36708	9.52	3.0E-48	BF514170.1	EST_HUMAN	PTRE repetitive element;
44	12873	25495	1.71	2.0E-48	AA631940.1	EST_HUMAN	UIH-BW1-ent-a-10-0-UI a1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082287 3'
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	frnt67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
4495	17231	29861	1.42	2.0E-48	BE248065.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
5724	18516	31436	0.61	2.0E-48	AA613171.1	EST_HUMAN	SP-M6B MOUSE P35803 MEMBRANE GLYCOPROTEIN;
5724	18516	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project-TCBA Homo sapiens cDNA clone TCBAP3842
7419	20096	33182	4.77	2.0E-48	AB040934.1	NT	no18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33183	4.77	2.0E-48	AB040934.1	NT	no18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7432	20109	33197	3.35	2.0E-48		NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
8253	20947	34084	1.33	2.0E-48	AV743451.1	EST_HUMAN	Homo sapiens v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) (RELA), mRNA
12041	17888	30486	4.27	2.0E-48	AA465007.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'
12367	26232	30820	1.86	2.0E-48	BE737154.1	EST_HUMAN	zx80c03.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:810052 6'
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	601305084F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
54	12883	25511	2.3	1.0E-48	7706534	NT	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
853	13623	26293	17.13	1.0E-48	4502169	NT	SP-M6B MOUSE P35803 MEMBRANE GLYCOPROTEIN;
1273	14023	26891	3.77	1.0E-48	5032032	NT	Homo sapiens cisplatin resistance-associated overexpressed protein (LOC51747), mRNA
1811	14848	27359	30.36	1.0E-48	AL163302.2	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3481	16238	26894	0.96	1.0E-48	AL163246.2	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
5061	17780	30398	1.6	1.0E-48	M10976.1	NT	Homo sapiens chromosome 21 segment HS21C102
6195	18971	31946	1.17	1.0E-48	AI869077.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
							Human endogenous retroviral DNA (4-1), complete retroviral segment
							td17c01.x1 NCL CGAP_C016 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6195	18971	31947	1.17	1.0E-48	AB89077.1	EST_HUMAN	Id17c01.x1 NCL CGAP_Co16 Homo sapiens cDNA clone IMAGE:2075804 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;
6407	19176		0.94	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6500	19265	32268	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6500	19265	32267	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19844	32813	2.52	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34566	0.76	1.0E-48	4756695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8730	21422	34567	0.76	1.0E-48	4756695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9113	21801	34968	0.84	1.0E-48	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9168	21838	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9481	22134	35314	5.33	1.0E-48	BF04683.1	EST_HUMAN	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10269	22817	36127	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
10269	22817	36128	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
2002	14737	27481	1.13	8.0E-49	AB028497.1	NT	Mus musculus MyoPD mRNA for myosin containing PDZ domain, complete cds
5962	18744	31704	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
5962	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20888	34028	3.17	8.0E-49	U23850.1	NT	Human inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
9889	22639	35733	1.15	8.0E-49	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
135	13171	25814	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25814	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25815	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25814	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25815	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1199	13951	26815	3.4	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5373	18173	30882	2.11	7.0E-49	AB07191.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356683 3' similar to TR:O54923 O54923 RSEC15;
5383	18183	30873	1.46	7.0E-49	AL120937.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033 3'
5716	18173	30882	0.67	7.0E-49	AB07191.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356683 3' similar to TR:O54923 O54923 RSEC15;
192	13005	25646	12.12	6.0E-49	AW731740.1	EST_HUMAN	ba55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800504 3' similar to gb-X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb-M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
4095	16837	29484	1.27	6.0E-49	AL162091.1	EST_HUMAN	DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6349	19118	32109	0.94	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLAGE4 Homo sapiens cDNA clone PLACE400148 5'
7314	19897	33076	0.69	6.0E-49	AW511225.1	EST_HUMAN	hd44602.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
9633	22285	35478	0.45	6.0E-49	9910293	NT	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
9633	22285	35479	0.45	6.0E-49	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11248	23910	37202	2.5	6.0E-49	AW452218.1	EST_HUMAN	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11681	24287	37579	2.6	6.0E-49	AA369556.1	EST_HUMAN	U1-H-B13-alc-a-05-0-UJ.s1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11681	24257	37580	2.8	6.0E-49	AA369556.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA 5' end
12362	25151		2.03	6.0E-49	AA707567.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA 5' end
695	13470	28117	7	5.0E-49	AL163210.2	NT	z429c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'
695	13470	28118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens chromosome 21 segment HS21C010
1786	14527	27235	3.49	5.0E-49	AA172121.1	EST_HUMAN	zp29c07.r1 Stragene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:910860 5' similar to
2764	16469	28201	4.25	5.0E-49	U17714.1	NT	TR:Q233226 Q233226 RTVL-H PROTEIN; contains LTR7 LTR7 repetitive element;
							Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3287	16029	28878	2.64	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC633362), mRNA
512	13286	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	x08b01.x1 NCL_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2875593 3' similar to WP:B0360.2B
7172	19858	32930	0.95	4.0E-49	11525737	NT	CE06703;
							Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8
7172	19858	32931	0.95	4.0E-49	11525737	NT	(GalNAc-T8) (GALNT8), mRNA
7710	20374	33488	0.9	4.0E-49	7662209	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8
8763	21455	34604	0.47	4.0E-49	11425374	NT	(GalNAc-T8) (GALNT8), mRNA
8763	21455	34605	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
12221	25388		4.21	4.0E-49	AA210788.1	EST_HUMAN	z80105.r1 NCL_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:982977 5'
							Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
12306	24730		4.1	4.0E-49	AF240786.1	NT	genes, complete cds
547	13330	25961	1.73	3.0E-49	X68968.1	NT	Hi sapiens mRNA for acetyl-CoA carboxylase
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	z631c05.r1 Soares retina N264HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1
4923	17651	30264	2.33	3.0E-49	U46999.1	NT	repetitive element;
7319	20002	33081	11.87	3.0E-49	H39479.1	EST_HUMAN	Human type IV collagen (COL4A6) gene, exon 40
							EST25e12 WATM1 Homo sapiens cDNA clone 25e12

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11272	29933	37228	1.98	3.0E-49	AA337581.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' end
646	13425		2.94	2.0E-49	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3216	15979	28630	1.94	2.0E-49	N28446.1	EST_HUMAN	y23d06.t1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:282571 5'
							oz88d02.x1 Soares senescent fibroblasts NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element; contains element MER22 repetitive element;
4746	17478	30110	0.68	2.0E-49	AI167957.1	EST_HUMAN	U1-H-B14-aps-d-02-q-UJ1 NCJ CGAP Sub8 Homo sapiens cDNA clone IMAGE:3088638 3'
4758	17490	30118	0.74	2.0E-49	BF611846.1	EST_HUMAN	AV717938 DCB Homo sapiens cDNA clone DCBALB01 5'
6637	19399	32414	1.17	2.0E-49	AV717938.1	EST_HUMAN	EST02558 Fetal brain; Stratagene (cat#836206) Homo sapiens cDNA clone HFBCY50
7998	20693		1.74	2.0E-49	M86033.1	EST_HUMAN	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
12316	28250		2.07	2.0E-49	AF163864.1	NT	601458831F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
879	19348		5	1.0E-49	BF035327.1	EST_HUMAN	Homo sapiens keratin 18 (KRT18) mRNA
1546	14292	26978	1.11	1.0E-49	4557887	NT	601115769F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3356273 5'
1784	14534	27243	4.82	1.0E-49	BE255216.1	EST_HUMAN	601B20053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
5275	18080	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	yn48r04.r1 Soares adult brain N255HB55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT;
5986	18767	31731	0.88	1.0E-49	H18291.1	EST_HUMAN	EST376713 MAGE resequences, MAGH Homo sapiens cDNA
5992	18773	31736	5.55	1.0E-49	AW964640.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCVD11 5'
7117	19805	32869	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCVD11 5'
7117	19805	32870	0.82	1.0E-49	AV703000.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820883 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820883 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820883 5'
							yn78g12.s1 Soares placenta, 8to9weeks 2NbHP809W Homo sapiens cDNA clone IMAGE:258408 3'
7200	19886	32960	2.21	1.0E-49	N25884.1	EST_HUMAN	similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
							yn78g12.s1 Soares placenta, 8to9weeks 2NbHP809W Homo sapiens cDNA clone IMAGE:258408 3'
7200	19886	32961	2.21	1.0E-49	N25884.1	EST_HUMAN	similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7977	20572	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20572	33796	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8575	21267		0.66	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8991	21382	34721	1.29	1.0E-49	BE409340.1	EST_HUMAN	60130092F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635398 5'
10026	22674	35889	1.58	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423_r1 434 (synonym: hies3) Homo sapiens cDNA clone IMAGE:3635398 5'
10979	23654	36907	1.43	1.0E-49	AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWE04 5'
11281	23942	37236	3.32	1.0E-49	11427368	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24877		2.46	1.0E-49	11478322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4937	17665		1.4	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

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6310	25421		0.95	9.0E-50	BE285758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531688 5'
168	12980	26619	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1768	14500	27201	2.82	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	19410	28147	1.48	8.0E-50	4828858	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor (HGF) gene, exon 18
11385	23992	37293	1.29	8.0E-50	AA633467.1	EST_HUMAN	np62a06.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130891 3' similar to gb:J05459
605	13383	26015	0.76	7.0E-50	BE089591.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN);
6687	19604	32643	1.06	7.0E-50	BF091922.1	EST_HUMAN	QV0-BT0703-280400-211-c08 BT0703 Homo sapiens cDNA
6687	19604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32668	0.6	7.0E-50	AA627822.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
10658	23347	36584	7.65	7.0E-50	A1872137.1	EST_HUMAN	h359e12.s1 NCI_CGAP_C09 Homo sapiens cDNA clone IMAGE:1148208 3' similar to gb:X68391 80S
4309	17048		0.88	6.0E-50	BE794361.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN);
8112	20806		5.67	6.0E-50	BE044078.1	EST_HUMAN	wm55g11.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2439808 3'
10717	23408	36646	12.6	6.0E-50	AA312079.1	EST_HUMAN	601689865F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
10717	23408	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	h336h04.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:3038511 3' similar to contains MER29.b3
1785	14526	27233	1.1	5.0E-50	BF32938.1	EST_HUMAN	MER29 repetitive element;
1785	14526	27234	1.1	5.0E-50	BF32938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
8980	21680		5.26	5.0E-50	AA557883.1	EST_HUMAN	EST192775 Jurkat T-cells VI Homo sapiens cDNA 5' end
897	13665		1.71	4.0E-50	AA601143.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
3441	16197	28847	0.99	4.0E-50	AL163248.2	NT	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
6268	19041	32018	0.98	4.0E-50	11440883	NT	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
7135	18822	32888	1.95	4.0E-50	BE087536.1	EST_HUMAN	h45h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1049583 similar to contains PTR5.b3 PTR5
1931	14667		4.13	3.0E-50	M18048.1	NT	repetitive element;
3293	16064	28703	1.24	3.0E-50	AA746142.1	EST_HUMAN	re54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X63741_ma1
3734	16487	29124	1.14	3.0E-50	AW755254.1	EST_HUMAN	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
							Homo sapiens chromosome 21 segment HS21C048
							Homo sapiens cysteinyl-tRNA synthetase (CARS), mRNA
							QV1-BT0681-127-f12 BT0681 Homo sapiens cDNA
							Human endogenous retrovirus RTVL-H2
							cb03f06.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1322627 3'
							CMYA6 Human cardiac muscle expression library Homo sapiens cDNA clone 4161835 similar to CMYA6
							Cardiomyopathy associated gene 5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6867	18584	32618	1.52	3.0E-50	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22369	35587	1.21	3.0E-50	AB046918.1	NT	Homo sapiens mRNA for KIAA1698 protein, partial cds
9727	22378	35590	0.99	3.0E-50	11418514	NT	Homo sapiens t-complex 10 (a murine top homolog) (TCP10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18276.1	NT	Mus musculus mRNA for neurobeachin
10415	23061	36280	1.03	3.0E-50	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11045	23715	36984	1.61	3.0E-50	11436865	NT	Homo sapiens Grib2-associated binder 2 (KIAA0571), mRNA
11441	23208	38439	5.35	3.0E-50	AJ245621.1	NT	Homo sapiens CTL2 gene
760	13532		5.38	2.0E-50	AF055066.1	NT	Homo sapiens MHC class 1 region
1057	13815	28476	5.57	2.0E-50	4557762	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
1424	14171	26857	2.25	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
6768	18513	32539	0.59	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8215	20909	34045	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8355	21048	34186	10.04	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8355	21048	34187	10.04	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35841	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9784	22435	35842	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11600	24256		1.8	2.0E-50	AF023881.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
449	13235	25874	1.92	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2365	16087		9.48	1.0E-50	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10093	22741	35956	1.57	1.0E-50	D11076.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5893	18678	31624	1.21	9.0E-51	AW511225.1	EST_HUMAN	hd44602.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
6130	18908	31876	0.71	9.0E-51	AA744937.1	EST_HUMAN	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
8572	21264	34403	0.65	9.0E-51	AJ791154.1	EST_HUMAN	ny67n03.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
9224	21803	35075	1.23	9.0E-51	AA043738.1	EST_HUMAN	ab23604.x8 Stratiagene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN_Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;

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9400	22062	35231	0.89	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x6 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:841688 3' similar to SW:P5M_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9400	22062	35232	0.66	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x6 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:841688 3' similar to SW:P5M_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
11455	23222	36456	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Marton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11455	23222	36457	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Marton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11823	18908	31876	1.43	9.0E-51	AA744837.1	EST_HUMAN	ny67h03.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
4405	17142	29770	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	29771	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4530	17265	28988	8.43	8.0E-51	AA610842.1	EST_HUMAN	np98e09.s1 NCI CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:X12871_mat HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
7552	20222	33325	2.24	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
9384	21939	33325	1.13	8.0E-51	AU135590.1	EST_HUMAN	AU135590 PLAGE1 Homo sapiens cDNA clone IMAGE:1008887 5'
11812	20222	33325	2.02	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	xi34e03.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN ;
3276	16037	28687	1.45	7.0E-51	AW889219.1	EST_HUMAN	QV4-NT0028-200400-180-405 NT0028 Homo sapiens cDNA
4148	16888	29519	1.37	7.0E-51	AL079828.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4146	16888	29520	1.37	7.0E-51	AL079828.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4318	17057	28681	2.71	7.0E-51	AW295603.1	EST_HUMAN	U1H-BW0-ahp-b-05-0-UI.61 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2728817 3'
11888	24281	37603	1.34	7.0E-51	AF161449.1	NT	Homo sapiens HSPC331 mRNA, partial cds
1872	14708	27426	4.96	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mex2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
3466	18222	28878	14.73	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mex2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
5901	18686	31634	1.56	6.0E-51	X01788.1	NT	Human haptoglobin related (Hpr) gene exon 3
5912	18696	31648	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
5912	18696	31649	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6683	18580	32615	1.02	6.0E-51	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
6792	18536	32564	0.97	6.0E-51	11418761	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56590), mRNA
6868	17945	30540	2.2	6.0E-51	11429665	NT	Homo sapiens cerebral cell adhesion molecule (LOC51146), mRNA
6035	21725	34878	0.68	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
8035	21725	34879	0.68	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
8932	22235	35419	2.18	6.0E-51	7661535	NT	Homo sapiens B9 protein (B9), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9662	22314	35511	0.87	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (866), alpha isoform (PPP2R5A), mRNA
11515	24115	37426	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (866), alpha isoform (PPP2R5A), mRNA
774	13546	26207	11.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
789	13557	26218	1.96	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
970	15557	26400	0.95	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1503	14949	27038	0.99	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
2601	15315	28052	8.87	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 165
3925	16675	29316	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3926	16675	29317	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1153	13908	26571	3.65	3.0E-51	AI597348.1	EST_HUMAN	trb1c09.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cde4
4282	17031	29659	1.87	3.0E-51	AL159142.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
						EST_HUMAN	Novel human gene mapping to chromosome 22
7479	20152	33246	3	3.0E-51	R15914.1	EST_HUMAN	y47c08.r1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cde4
8738	21430		4.66	3.0E-51	M29063.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
8068	25430		0.47	3.0E-51	AW583777.1	EST_HUMAN	Human hnRNP C2 protein mRNA
357	13155	25786	2.01	2.0E-51	4507798	NT	la04d06.y1 Human Pancreatic Islets Homo sapiens cDNA 5'
1683	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	(Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
3716	19469	29107	1.57	2.0E-51	AI492415.1	EST_HUMAN	zr30a05.r1 Stralagene NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:664880 5' similar
4458	17194	29820	0.78	2.0E-51	AW137826.1	EST_HUMAN	to TR:G233228 G233228 RTVL-H PROTEIN. ; contains LTR7.3 LTR7 repetitive element ;
5352	18155	30837	0.7	2.0E-51	AI732851.1	EST_HUMAN	il27g03.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131732 3'
5352	18155	30838	0.7	2.0E-51	AI732851.1	EST_HUMAN	UI-H-B1'-adj.-3-02-0-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5925	18709	31683	3.68	2.0E-51	BE782015.1	EST_HUMAN	pb34f09.x5 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
7209	18894		0.61	2.0E-51	AI721927.1	NT	P35436 GLUTAMATE [NMMA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
						EST_HUMAN	pb34f09.x5 NCL CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
						EST_HUMAN	P35436 GLUTAMATE [NMMA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
						EST_HUMAN	601470446F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3973563 5'
						NT	Homo sapiens diacylglycerol kinase Iota (DGKI) gene, exon 23

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33118	1.06	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
8599	21281	34432	1.72	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8599	21291	34433	1.72	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8932	21623	34766	0.96	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22090	35261	1.45	2.0E-51	A1917078.1	EST_HUMAN	ts74a07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:22388880 3' similar to SW:TRKC_HUMAN
9503	22156	35336	5.68	2.0E-51	BE165980.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
8519	22172	35355	0.6	2.0E-51	AB007926.1	NT	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10332	22879	36199	1.77	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23016	36232	2.67	2.0E-51	AA378559.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF06 5'
11298	18155	30837	8.52	2.0E-51	A1732851.1	EST_HUMAN	EST81296 Synovial sarcoma Homo sapiens cDNA 5' end
11298	18155	30838	8.52	2.0E-51	A1732851.1	EST_HUMAN	bb3409.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
12523	24870	31017	2.1	2.0E-51	11419159	NT	P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
112	12934	25571	5.74	1.0E-51	4503528	NT	bb3409.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
1479	14226		20.32	1.0E-51	AV742248.1	EST_HUMAN	P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
4959	17684	30294	1.52	1.0E-51	BE779039.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4
5305	18110	30769	4.1	1.0E-51	T18862.1	EST_HUMAN	(MLLT4), mRNA
7549	20219	33322	0.94	1.0E-51	A1572532.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
7803	20498	33619	0.81	1.0E-51	BF434359.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBCC12 5'
11783	25434		2	1.0E-51	AV760590.1	EST_HUMAN	601464695F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868246 5'
10587	23282	36520	1.39	9.0E-52	R91638.1	EST_HUMAN	b120561 Testis 1 Homo sapiens cDNA clone b12056
10587	23282	36521	1.39	9.0E-52	R91638.1	EST_HUMAN	ts39g02.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2089108 3'
12301	24726		5.36	9.0E-52	AA777621.1	EST_HUMAN	7c96b02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892
148	12963	25605	9.99	8.0E-52	AA720574.1	EST_HUMAN	PROTEASE ;
1482	14229	28915	1.65	8.0E-52	X84900.1	NT	AV760590 MDS Homo sapiens cDNA clone MDSO8B02 5'
							yq10h04.r1 Soares fetal liver spleen 'NFLS Homo sapiens cDNA clone IMAGE:196587 5' similar to
							SP:YGAF_ECOLI_P37338 HYPOTHETICAL PROTEIN IN GABP 3 REGION ;
							yq10h04.r1 Soares fetal liver spleen 'NFLS Homo sapiens cDNA clone IMAGE:196587 5' similar to
							SP:YGAF_ECOLI_P37338 HYPOTHETICAL PROTEIN IN GABP 3 REGION ;
							z656a07.s1 Soares fetal liver spleen 'NFLS_S1 Homo sapiens cDNA clone IMAGE:449500 3' similar to
							contains THR.13 THR repetitive element ;
							mw21g02.s1 NCI_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13
							THR repetitive element ;
							H.sapiens mRNA for laminin-5, alpha3b chain

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14398	27085	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
1660	14396	27086	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14398	27085	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14396	27086	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7417	20094	33178	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8911	21602	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	z559a06.r1 Soares_papillary_thyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element
1184	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271289-049-d07 BT0537 Homo sapiens cDNA
1689	14433	27129	4.27	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5641	18436	31349	0.86	6.0E-52	AI208794.1	EST_HUMAN	gg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	SW:PGEM_MOUSE_Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR ;
9292	21959	35132	0.6	5.0E-52	11437365	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1723	14468	27165	1.32	4.0E-52	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
1780	14521	27225	1.02	4.0E-52	4758843	NT	Homo sapiens nucleoporin 156kD (NUP155) mRNA
3906	16659	29287	0.99	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30633	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5204	18012	30634	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7938	20633	33760	1.74	4.0E-52	BE622032.1	EST_HUMAN	801440897F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 5'
8432	21125	34263	5.48	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12627	24930		5.23	4.0E-52	AB02059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4071	18815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10875 (FLJ10875), mRNA
549	13332	25962	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25963	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27993	2.04	2.0E-52	BE207675.1	EST_HUMAN	bb66b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:X16483 M.musculus mRNA for Zfp-1 zinc finger protein (MOUSE);
2740	15448		6.03	2.0E-52	BF671892.1	EST_HUMAN	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
4920	17648	30260	2.13	2.0E-52	AL137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
4952	17678	30287	1.29	2.0E-52	AI141802.1	EST_HUMAN	q656e05.s1 Soares_NH-MP_u_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
4952	17678	30288	1.29	2.0E-52	AI141802.1	EST_HUMAN	q656e05.s1 Soares_NH-MP_u_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5617	18413	31328	4.11	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA
6274	19047	32024	1.98	2.0E-52	11141888	NT	Homo sapiens interleukin 21 receptor (IL21R), mRNA
6613	19376	32390	0.99	2.0E-52	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6843	19543	32571	1.17	2.0E-52	AI792148.1	EST_HUMAN	os45d12.y5 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
8551	21243		9.03	2.0E-52	AF147880.1	NT	Macaca mulatta beta-tubulin mRNA, complete cds
8834	21526	34672	0.81	2.0E-52	AA778795.1	EST_HUMAN	z45g05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453272 3'
9379	21954		0.88	2.0E-52	4758789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10015	22663	35879	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10015	22663	35880	5.63	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11165	23832	37111	3.15	2.0E-52	AI831462.1	EST_HUMAN	wj49c04.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2408160 3' similar to contains THR.b2 THR repetitive element ;
11165	23832	37112	3.15	2.0E-52	AI831462.1	EST_HUMAN	wj49c04.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2408160 3' similar to contains THR.b2 THR repetitive element ;
11178	23845	37131	3.09	2.0E-52	AV715377	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
11325	24016		1.72	2.0E-52	W70260.1	EST_HUMAN	z49g12.r1 Soares_fetal_heart_NH-H19W Homo sapiens cDNA clone IMAGE:344038 5'
11618	24215		2.76	2.0E-52	11417890	NT	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
11961	25408	30601	24.36	2.0E-52	AW236297.1	EST_HUMAN	xn72e07.x1 NCL_CGAP_CMV11 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element ;
12350	24756		4.49	2.0E-52	AI808985.1	EST_HUMAN	wf67d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859 Q16859 CARBOXYLESTERASE ;
520	13304	25937	1.96	1.0E-52	AA634445.1	EST_HUMAN	zu75h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
1350	14068	26773	37.84	1.0E-52	4504026	NT	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA
2537	15252		0.9	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3055	15821	28465	2.67	1.0E-52	S61070.1	NT	pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 660 nt]
5250	18056	30684	4.35	1.0E-52	M29426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6300	18073	32059	2.51	1.0E-52	U38964.1	NT	Human PMS2 related (hPMSR2) gene, complete cds

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7330	20012	33090	5.31	1.0E-52	X07292.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8364	21057		1.2	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9087	21776	34940	0.76	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10476	23122		1.03	1.0E-52	AF020370.1	EST_HUMAN	di08g06.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10665	23366	36586	1.61	1.0E-52	U48266.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPAAAX1) mRNA, complete cds
10740	23427		2.09	1.0E-52	11426321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
3771	16523	29181	1.05	9.0E-53	4506064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4369	17007	29732	1.98	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12169	24660		3.18	7.0E-53	BF238463.1	EST_HUMAN	601804771F1 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:4132793 5'
12600	25285		4.92	7.0E-53	AI421782.1	EST_HUMAN	ff4407.x1 NCL_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains THR.11 THR repetitive element:
5086	17806	30422	1.02	6.0E-53	BE295719.1	EST_HUMAN	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530946 5'
4078	16822	29448	2.28	5.0E-53	4758543	NT	Homo sapiens heterogeneously nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA
12236	24688		1.58	5.0E-53	AW813563.1	EST_HUMAN	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA
48	12877	25502	2.78	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
48	12877	25503	2.78	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4771	17603	30126	1.03	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
9316	21983		0.68	4.0E-53	AI613037.1	EST_HUMAN	W06h04.x1 NCL_CGAP_U3 Homo sapiens cDNA clone IMAGE:2278327 3'
9656	22308		0.67	4.0E-53	FI3080.1	EST_HUMAN	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11175	23842	37128	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810999F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810999F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2665	15375	28114	1.77	3.0E-53	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4549	17284	28914	0.74	3.0E-53	AW803563.1	EST_HUMAN	IL2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA
5339	18142	30803	0.7	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5538	18336	31243	0.82	3.0E-53	11526297	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6101	18879	31846	0.85	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
6998	19690	32740	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
6998	19690	32741	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
8203	20897	34034	12.52	3.0E-53	S72043.1	NT	GIF=growth inhibitory factor [human, brain, Genomic, 2015 nt]
8758	21450	34597	0.65	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8955	21646		8.41	3.0E-53	5901953	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
11828	24410	37746	2.78	3.0E-53	8923599	NT	Homo sapiens hypothetical protein FLJ20644 (FLJ20644), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
446	13231		5.82	2.0E-53	AA366556.1	EST_HUMAN	EST177625 Pancreas tumor III Homo sapiens cDNA 5' end
2827	15052	27788	2.79	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2638	15253		8.73	2.0E-53	4502310	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA
2729	15436	28172	1.48	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2728	15436	28173	1.48	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	16001	28651	3.72	2.0E-53	AF083822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4036	16781	29411	2.63	2.0E-53	M61873.1	NT	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.67	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0358-170800-001-g03 CT0358 Homo sapiens cDNA
5340	18143	30805	2.67	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0358-170800-001-g03 CT0358 Homo sapiens cDNA
7770	20466	33550	1	2.0E-53	AW975598.1	EST_HUMAN	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-53	AW245876.1	EST_HUMAN	2822665.Eprimo NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
1428	14175	26860	1.51	1.0E-53	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3404	16162	28813	1.08	1.0E-53	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6593	19356	32370	1.52	1.0E-53	BF364201.1	EST_HUMAN	CM4-NN1029-150800-543-e02 NN1029 Homo sapiens cDNA
7147	19834	32803	0.68	1.0E-53	BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7836	20531	33658	0.54	1.0E-53	AA249072.1	EST_HUMAN	II9571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
8987	21877	34826	5.91	1.0E-53	X78936.1	NT	H. sapiens mRNA for hnRNP-core protein A1
11833	24417	37757	1.41	1.0E-53	X98411.1	NT	H. sapiens mRNA for myosin-IE
11833	24417	37758	1.41	1.0E-53	X98411.1	NT	H. sapiens mRNA for myosin-IE
11855	24507	37255	2.29	1.0E-53	AW245422.1	EST_HUMAN	2822943.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822943 3'
5219	25063	30651	6.18	9.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13016	26655	2.4	8.0E-54	BE398786.1	EST_HUMAN	801272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'
1827	14568	27278	1.77	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5845	18633	31568	26.87	8.0E-54	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
375	13200	25845	1.27	7.0E-54	AA812537.1	EST_HUMAN	ai79c12.e1 Soares testis_NHT Homo sapiens cDNA clone 1377048 3' similar to contains MER30.13 MER30 repetitive element
1822	14561	27273	1.65	7.0E-54	Y16845.1	NT	Homo sapiens mRNA for monocyte chemoattractant protein-2
2202	14930	27687	6.38	7.0E-54	N27177.1	EST_HUMAN	yw68d12.e1 Soares placenta_6100weeks_2N1bHP8108W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal:	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10028	22676	35992	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
11047	23717	36986	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	36987	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23923		4.35	7.0E-54	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_Nb-H19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.1: OFR repetitive element
11811	24400	37736	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	26465	1.41	6.0E-54	AB003618.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
376	13201	25846	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
376	13201	25847	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3277	16038	26688	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3986	16734	29388	1.91	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLGN6) mRNA
4429	17165	29794	0.86	6.0E-54	AV754746.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TPGAAC10 5'
4792	17523	30145	1.78	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4819	17550		1.15	6.0E-54	Y09848.1	NT	H. sapiens shc pseudogene, p86 isoform
11432	23199	36430	1.51	6.0E-54	AW813568.1	EST_HUMAN	RC3-ST0197-151099-011-08 ST0197 Homo sapiens cDNA
2146	14876	27611	3.78	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
178	12990		13.34	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
936	13703	26368	57.5	4.0E-54	AA308764.1	EST_HUMAN	EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1798	14538	27248	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1798	14538	27249	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3199	16962		1	4.0E-54	AI935096.1	EST_HUMAN	wd26d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR:O02711
92	12918	25555	4.47	3.0E-54	AA313487.1	EST_HUMAN	O02711 PRO-POL-DUTPASE POLYPROTEIN;
1565	14312		0.91	3.0E-54	AW515742.1	EST_HUMAN	EST185371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
2574	16288	28025	0.86	3.0E-54	AL110383.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2916842 3'
2630	15342		1.34	3.0E-54	AI908757.1	EST_HUMAN	DKFZp434E0731_r1_434 (synonym: ites3) Homo sapiens cDNA clone DKFZp434E0731 5'
5814	18603	31531	1.74	3.0E-54	4502434	NT	IL-BT189-190399-007 BT189 Homo sapiens cDNA
7288	19971	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	ai92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	ai92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10949	23627		1.63	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily e, 5 (GOLGA5), mRNA
11024	23698	36959	4.93	3.0E-54	BF346600.1	EST_HUMAN	602019408F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11341	24031	37335	3.26	3.0E-54	AA393962.1	EST_HUMAN	z70f12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:4155121 5'
12056	24573	31119	2.98	3.0E-54	AW954559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
12097	25373		2.51	3.0E-54	AW748965.1	EST_HUMAN	EST366628 MAGC resequences, MAGC Homo sapiens cDNA
927	13406	26040	8.89	2.0E-54	5031900	NT	RC1-BT0313-131199-011-b09 BT0313 Homo sapiens cDNA
1344	14092	28767	0.96	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1539	14286	26972	1.37	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2541	15255	27985	1.22	2.0E-54	AW163175.1	EST_HUMAN	n78a09.s1 NCI_CGAP_P13 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1 repetitive element;
2608	16320	28062	1.66	2.0E-54	AL163210.2	NT	au92g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783784 5' similar to SW:CU1_HUMAN Q13616 CULLIN HOMOLOG 1;
2898	15663	28311	1.52	2.0E-54	AW057524.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
3311	16071	28721	1.18	2.0E-54	AJ278314.1	NT	wy60b12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2552827 3' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
3538	18292		3.2	2.0E-54	AA532925.1	EST_HUMAN	Homo sapiens mRNA for phospholipase C-beta-1b (PLCB1 gene)
4181	16921		2.08	2.0E-54	4502642	NT	n45g09.s1 NCI_CGAP_P19 Homo sapiens cDNA clone IMAGE:985488 similar to gb-X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN);
4826	17556	30178	1.02	2.0E-54	7706448	NT	Homo sapiens chaparotin containing T-complex subunit 6 (CCT6) mRNA
5388	18188	30880	1.64	2.0E-54	4759069	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
5518	18314	31218	1.2	2.0E-54	BEO47854.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA
5675	18469	31385	5.04	2.0E-54	11426857	NT	tz43c11.y1 NCI_CGAP_Bn52 Homo sapiens cDNA clone IMAGE:2291348 5'
5771	18562	31489	13.99	2.0E-54	AB046811.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
5771	18562	31490	13.99	2.0E-54	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6559	18324	32331	0.88	2.0E-54	AF008915.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6713	18628	32672	0.65	2.0E-54	AB023212.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
6713	18628	32673	0.65	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
7023	19715	32772	8.6	2.0E-54	11428544	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
9529	22182	35366	4.11	2.0E-54	AB001025.1	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
9909	22558	35753	0.79	2.0E-54	11429127	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
10021	22689	35885	1.01	2.0E-54	11418762	NT	Homo sapiens Janus Kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10021	22689	35886	1.01	2.0E-54	11418762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
10021	22689	35886	1.01	2.0E-54	11418762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	19324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EV15 homolog mRNA, complete cds
11727	24321		2.86	2.0E-54	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF316418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
10153	22801	36018	0.52	1.0E-54	AA412409.1	EST_HUMAN	zu10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10153	22801	36019	0.52	1.0E-54	AA412409.1	EST_HUMAN	zu10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
12710	24986		2.17	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zv6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5 end
10257	22905	36115	0.94	9.0E-55	BE081469.1	EST_HUMAN	QV2-BT0635-160400-143-R12 BT0635 Homo sapiens cDNA
1292	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.83	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23818		1.87	8.0E-55	AW409714.1	EST_HUMAN	fn02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860907 5'
1059	13817	26479	0.77	7.0E-55	R09346.1	EST_HUMAN	yf26e04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127898 5' similar to SP-C561_BOVIN P10897 CYTOCHROME ;
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xtf76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2803522 3' similar to TR:O60365 O60365 FOS38554 1 ;
9080	21769	34932	1.26	7.0E-55	AA889581.1	EST_HUMAN	ak28a11.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
9115	21803	34968	2.19	7.0E-55	AU139809.1	EST_HUMAN	AU139809 PLACE1 Homo sapiens cDNA clone PLACE1011578 5'
11171	23838	37120	10.32	7.0E-55	A1661068.1	EST_HUMAN	iq29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
11171	23838	37121	10.32	7.0E-55	A1661068.1	EST_HUMAN	iq29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
12882	25303		2.6	7.0E-55	H23396.1	EST_HUMAN	ym57g07.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:52444 5'
11498	24099	37412	2.45	6.0E-55	AB040934.1	NT	Homo sapiens mRNA for KIAA1601 protein, partial cds
1763	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
4720	17452	30086	1.81	5.0E-55	AW206021.1	EST_HUMAN	U1-H-BI1-af1-g-09-0-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723536 3'
8448	19214	32211	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
8448	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
9568	25094	32340	1.34	5.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
8568	25094	32341	1.34	5.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
9937	19672	32718	0.83	5.0E-55	7382477	NT	Homo sapiens Rho GTPase activating protein 6 (RHGAP6), transcript variant 5, mRNA
7195	19881	32955	0.7	5.0E-55	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
7893	20588	33718	0.72	5.0E-55	11528491	NT	Homo sapiens BCL2-associated atrogenic (BAG1), mRNA
8942	21633	34777	3.63	5.0E-55	4508302	NT	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9219	21898		1.75	5.0E-55	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
9937	22585	35786	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9937	22586	35787	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10122	22770	35984	2.48	5.0E-55	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
12137	24826		2.73	5.0E-55	11417972	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
697	13434	26076	65.4	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1), mRNA
1421	14169	26853	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1421	14169	26854	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1504	14250		1.7	4.0E-55	BF061411.1	EST_HUMAN	7/52b10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element:
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2696	16310		1.21	4.0E-55	AJ271735.1	NT	Homo sapiens Xq pseudocautosomal region; segment 1/2
8242	20938		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28188.1	EST_HUMAN	43c5 Human telomere cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24574		3.05	4.0E-55	BF303941.1	EST_HUMAN	60186575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24538		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
12721	24993		1.86	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
368	13164	25807	1.98	2.0E-55	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
538	13321		1.13	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
634	13413	26049	13.79	2.0E-55	4507288	NT	Homo sapiens syntaxin-binding protein 1 (STXB1) mRNA, and translated products
4723	17455	30090	2.91	2.0E-55	BE719888.1	EST_HUMAN	CM1-HT0878-150800-357-g03 HT0878 Homo sapiens cDNA
7403	25113	33162	0.76	2.0E-55	AW501988.1	EST_HUMAN	U-HF-BND-eks-f-06-0-UJ11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224462.1	EST_HUMAN	hr76h08.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224462.1	EST_HUMAN	hr76h08.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9058	21747		6.23	2.0E-55	AJ002836.1	EST_HUMAN	am8h05.s1 Streptococcus schlothei brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR.b2 THR repetitive element:
9140	21828		0.72	2.0E-55	BE007959.1	EST_HUMAN	QV0-BN0147-280400-213-g06 BN0147 Homo sapiens cDNA
10870	23560	36788	1.95	2.0E-55	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005883 5'
95	12921	25558	3.01	1.0E-55	4506060	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
184	12997	25638	8.22	1.0E-55	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefla2) mRNA, complete cds
1127	13893	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14878	27391	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
1943	14878	27392	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
2324	15049		2.48	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2338	15528	27799	1.17	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2521	15237	27876	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2559	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2617	15328	28071	1.72	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
3970	16719	28353	4.28	1.0E-55	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C087
4262	17003	28635	1.26	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4882	17416		1.02	1.0E-55	N77261.1	EST_HUMAN	yy44g03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245620 5'
5410	18209	30917	0.97	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6178	18955	31929	6.82	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
7888	20583	33712	1.84	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33713	1.84	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7980	20975	33799	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20975	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
10829	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	36423	2.53	1.0E-55	U60960.1	NT	Human infant brain unknown product mRNA, complete cds
11444	23211	36442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cat8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-Ft61 5' similar to similar to Chinese Hamster DHFR-coamplified protein mRNA
11589	24168	37482	2.35	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein (LOC568242), mRNA
7265	19949	33026	1.83	9.0E-56	BE379074.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609552 5'
737	15444	28182	5.32	7.0E-56	H16934.1	EST_HUMAN	yy62g03.r1 Soares adult brain N2b6HB66Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element;
7540	20210	33309	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
7540	20210	33310	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-56	AW697712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
9059	21748	34906	0.86	5.0E-56	AW015507.1	EST_HUMAN	U1H-B10p-aau-a-05-0-U1.s1 NCL CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10286	22934		1.61	5.0E-56	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12220	28359	30810	2	5.0E-56	H55099.1	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_56 5'
26	12854	25469	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
26	12854	25470	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14902		2.69	4.0E-56	BF207596.1	EST_HUMAN	601862059F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081551 5'
2712	15419	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13297	25928	3.49	4.0E-56	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2838	15331	28074	1.48	4.0E-56	AB32488.1	EST_HUMAN	wb09f08.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
2838	15331	28075	1.48	4.0E-56	AB32488.1	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE;
6164	18941	31912	6.01	4.0E-56	AF217508.1	NT	wb09f08.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
6164	18941	31913	6.01	4.0E-56	AF217508.1	NT	P27119 ORNITHINE DECARBOXYLASE;
10403	23049	36266	2.02	4.0E-56	AF043349.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10941	23523	36764	8.88	4.0E-56	AF498066.1	EST_HUMAN	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10941	23523	36765	8.88	4.0E-56	AF498066.1	EST_HUMAN	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
1319	14068	26742	4.17	3.0E-56	8924028	NT	bm65g12.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
3122	15887	28527	1.54	3.0E-56	AA325826.1	EST_HUMAN	bm65g12.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
3122	15887	28528	1.54	3.0E-56	AA325826.1	EST_HUMAN	Homo sapiens hypodermal protein PRO1304 (PRO1304), mRNA
3815	16567		1.61	3.0E-56	AF055066.1	NT	EST28889 Cerebellum II Homo sapiens cDNA 5' end
4355	17093	29728	1.43	3.0E-56	7697042	NT	EST28889 Cerebellum II Homo sapiens cDNA 5' end
4390	17127	29759	4.27	3.0E-56	AL163268.2	NT	Homo sapiens MHC class I region
4534	17269	29902	2.34	3.0E-56	5902085	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
5598	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens chromosome 21 segment HS21C088
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens superkiller viral-like activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
6775	19519	32547	7.03	3.0E-56	11421124	NT	Homo sapiens sparc/osteonectin, cwev and kazal-like domains proteoglycan (SPOCK) mRNA
7223	19608	32981	1.15	3.0E-56	4504970	NT	Homo sapiens sparc/osteonectin, cwev and kazal-like domains proteoglycan (SPOCK) mRNA
7223	19608	32982	1.15	3.0E-56	4504970	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
8715	21407	34650	4.68	3.0E-56	11418704	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
10379	23025	36240	1.38	3.0E-56	11434958	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
10642	23333	36571	1.71	3.0E-56	AB042556.1	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
11284	23845	37239	6.37	3.0E-56	5902013	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
							Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
							Homo sapiens nuclear pore complex interacting protein (NP1P), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23945	37240	0.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24268	37590	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24268	37591	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 6
12095	24597	31083	1.52	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13295		1.7	2.0E-56	AA198818.1	EST_HUMAN	z52a08.s1 Stralagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:645208 3'
716	15550	26141	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
716	15550	26142	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2887	15753	28399	1.18	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3523	16279	28934	1.64	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
8990	19883	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
959	13724		1.84	1.0E-56	AF190930.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3664	16417	28058	2.15	1.0E-56	AW569833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2946452 3'
3664	16417	29057	2.15	1.0E-56	AW569833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2946452 3'
4972	17686	30303	0.99	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
5118	17836	30463	0.97	1.0E-56	6881002	NT	Mus musculus cytoplasmic polyadenylation element binding protein (Cpeb), mRNA
8724	19558	32589	0.57	1.0E-56	AW609520.1	EST_HUMAN	MR3-ST0203-180100-208-H02 ST0203 Homo sapiens cDNA
9855	22505		0.99	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
8948	22586	35800	1.71	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220999-001-E02 CT0163 Homo sapiens cDNA
611	13389		2.62	9.0E-57	AW880885.1	EST_HUMAN	QV0-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
4180	16920	28548	1.14	9.0E-57	4758278	NT	Homo sapiens EphA4 (EPHA4) mRNA
4180	16920	29649	1.14	9.0E-57	4758278	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23848	37134	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23848	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11508	24107	37420	1.48	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
280	13096	25738	3.01	8.0E-57	AW818403.1	EST_HUMAN	QV4-ST0234-181199-037-F06 ST0234 Homo sapiens cDNA
864	13633	26303	6.36	8.0E-57	AW264599.1	EST_HUMAN	x05d10.x1 NCI_CGAP_Brm53 Homo sapiens cDNA clone IMAGE:2769251 3' similar to gb:U05875
1809	14549	27264	1.51	8.0E-57	AA466109.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
3376	16135	28791	0.98	8.0E-57	4758278	NT	z51512.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757151 5'
3376	16135	28792	0.98	8.0E-57	4758278	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17582	30205	1.3	8.0E-57	4557630	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4) mRNA
5161	25276	30728	3.29	8.0E-57	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6306	18078	32063	1.85	8.0E-57	AB020705.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	19141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0990 protein, partial cds
6372	19141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0990 protein, partial cds
7349	20030	33107	0.64	8.0E-57	7682283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7648	20312	33423	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
7648	20312	33424	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11460	17869	30487	3.29	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12459	24828	31028	2.74	8.0E-57	11645732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.69	8.0E-57	11645732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12820	25060		2.07	8.0E-57	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	15350	28093	1.71	7.0E-57	7657582	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2639	15350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3265	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3858	16608	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3858	16608	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
4730	17462	30098	0.95	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxK) mRNA, complete cds
12785	25310		2.63	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3736	16489	28125	1.57	4.0E-57	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
786	13558	26220	0.78	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1308	14056		16.24	3.0E-57	AA230279.1	EST_HUMAN	nc1307.e1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2390	15111	27848	2.99	3.0E-57	AA348335.1	EST_HUMAN	P46793 40S RIBOSOMAL PROTEIN S10. ;
2707	15414	28151	0.95	3.0E-57	BE676622.1	EST_HUMAN	EST54770 Hippocampus II Homo sapiens cDNA 5' end
2707	15414	28152	0.95	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3288443 3' similar to WP:Y47H9C.2
3550	16305	28955	1.74	3.0E-57	AF232708.1	NT	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3288443 3' similar to WP:Y47H9C.2
3685	16438		62.34	3.0E-57	AW853964.1	EST_HUMAN	CE20263 ;
							733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3288443 3' similar to WP:Y47H9C.2
							CE20263 ;
							733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3288443 3' similar to WP:Y47H9C.2
							CE20263 ;
							Homo sapiens cell-line t6A201a chloride ion current inducer protein (Cin) gene, complete cds
							RC3-CT0254-110300-027-q10 CT0254 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5939	18721	31680	1.24	3.0E-57	11226608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE706537.1	EST_HUMAN	60158986F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	42168 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20764	33882	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8070	20764	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8179	20873	34008	0.7	3.0E-57	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
8328	21021	34157	0.73	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
8757	21449	34569	4.17	3.0E-57	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
8149	21680	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10825	23508	36747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473.1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30816	8.38	3.0E-57	W23871.1	EST_HUMAN	2b46411.1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:306549 5'
12460	25281		2.32	3.0E-57	AW176575.1	EST_HUMAN	RQ4-H10112-080999-001-c08 HT0112 Homo sapiens cDNA
12623	24928	31010	1.48	3.0E-57	AJ003649.1	EST_HUMAN	AJ003649 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPI10-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	18188		1.24	2.0E-57	AL183204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3810	16660	29301	0.79	2.0E-57	BE073284.1	EST_HUMAN	MRO-BT0551-060300-103-p03 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	za31c05.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1 repetitive element
5943	18725		33.81	2.0E-57	BF115266.1	EST_HUMAN	7n80104.x1 NCL CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570966 3' similar to contains TAR1.11
6067	18946	31810	0.66	2.0E-57	11431281	NT	MER22 repetitive element
8529	21221	34363	1.08	2.0E-57	AF045452.1	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8746	22397	35602	1.86	2.0E-57	AF057722.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
10525	23171	36398	0.49	2.0E-57	11434330	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10525	23171	36399	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37189	2.42	2.0E-57	11424084	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
8593	21285		3.62	1.0E-57	BE043031.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
12249	24986		5.08	1.0E-57	AW470791.1	EST_HUMAN	hs32a08.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR-000246 O00246 HYPOTHETICAL 9.3 KD PROTEIN
							hs33a06.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875489 3' similar to contains THR.b3 THR repetitive element

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5591	18387	31287	0.99	9.0E-58	AA297847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12516	24863	31015	1.55	9.0E-58	BE395061.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.76	8.0E-58	BE868715.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850211 5'
639	13418	26055	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O16475 O15475 UNNAMED HERV-H PROTEIN;
639	13418	26056	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O16475 O15475 UNNAMED HERV-H PROTEIN;
1849	14587	27301	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2374	15740		2.32	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
10762	23446		5.87	7.0E-58	5174542	NT	Homo sapiens MAD5 box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23529	36773	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-af-g-10-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079867 5'
10847	23529	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-af-g-10-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079867 5'
2251	14979	27718	1.02	8.0E-58	BE395061.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27837	3.78	8.0E-58	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2902	15668	28316	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2902	15668	28317	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6078	18857	31824	1.01	6.0E-58	AF106911.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	36072	0.79	6.0E-58	11434748	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	6.0E-58	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
293	13099	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
694	13469	26116	5.41	5.0E-58	BE763984.1	EST_HUMAN	RC4-NT0057-160600-016-505 NT0057 Homo sapiens cDNA
1172	13928	26589	2.96	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1172	13928	26590	2.96	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26589	2.76	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26590	2.76	5.0E-58	AW787948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3317	16077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	ar8e07.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603908 3'
4229	16970	28594	0.92	5.0E-58	AI638745.1	EST_HUMAN	is89e07.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA
5641	18338		2.32	5.0E-58	11496282	NT	P19984 PROFILIN II;
6085	18663	31828	6.80	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLAC1), mRNA ym51107.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52071 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32060	0.95	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6680	19587	32635	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribirin (NBS) mRNA, complete cds
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribirin (NBS) mRNA, complete cds
7006	19698	32752	0.73	5.0E-58	4885400	NT	Homo sapiens holochochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
7889	20584	33691	7.69	5.0E-58	8922893	NT	Homo sapiens hypothetical protein FLJ10826 (FLJ10826), mRNA
8251	20945	34083	0.7	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9239	21918	35089	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNA5E6PL) mRNA
9239	21918	35090	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNA5E6PL) mRNA
9757	22408	35614	0.88	5.0E-58	11430847	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
10023	22871	35887	1.78	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10300	22947	36161	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
10300	22947	36162	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
11819	24405	37740	2.69	5.0E-58	11431079	NT	Homo sapiens chimerin (chimerin) 1 (CHN1), mRNA
12071	26305		1.81	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12612	26330		1.5	5.0E-58	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
12732	25001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13162	25804	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
778	13551	26212	0.88	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1452	14199	26983	1.09	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2637	15349	28091	1.7	4.0E-58	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 3
3319	16078	28729	1.03	4.0E-58	D18470.1	NT	Human mRNA, Xq terminal portion
3723	18478	28113	1.25	4.0E-58	5031660	NT	Human sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11315	23974	37275	7.06	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
326	13127		2.57	3.0E-58	R17878.1	EST_HUMAN	y910e02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693 5'
1368	14116	28791	2.36	3.0E-58	4768981	NT	Homo sapiens peptide YY (PYY) mRNA
3174	15937	28565	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943 5'
3174	15937	28566	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943 5'
6167	18944	31815	0.63	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-184-08 BT0702 Homo sapiens cDNA
6362	19122	32114	1.43	3.0E-58	F07056.1	EST_HUMAN	HSC1T G081 normalized infant brain cDNA Homo sapiens cDNA clone c-1g08
6544	19309	32314	1.4	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'
918	13686	26350	11.9	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinic acid synthase 2 (ALAS2) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14016		10	2.0E-58	BE208532.1	EST_HUMAN	ba08b07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X69391.6DS RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81987 M. musculus mRNA for TAX responsive element binding protein (MOUSE);
5273	25065	30708	3.4	2.0E-58	BE907186.1	EST_HUMAN	601499991F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5273	25065	30734	3.4	2.0E-58	BE907186.1	EST_HUMAN	601499991F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5966	18748	31709	1.12	2.0E-58	BF513488.1	EST_HUMAN	UI-H-BW1-ams-g-11-0-JLs1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
							am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP:ZK328.1 CE05065 UBQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6031	18811	31771	1.88	2.0E-58	AI124874.1	EST_HUMAN	y08h06.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:198378 5'
6062	18841	31803	0.8	2.0E-58	R02667.1	EST_HUMAN	qm84c01.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895424 3'
6828	19489	32511	1.12	2.0E-58	AI291407.1	EST_HUMAN	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32809	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10641	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131881 5'
10885	23565	36813	2.43	2.0E-58	AW872641.1	EST_HUMAN	hm25f08.x1 NCI CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013671 3'
705	13480	28128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3'end
1046	13905	26464	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex 9 (22kD, B22) (NDUFB9), mRNA
1304	14053	28728	1.81	1.0E-58	AW957182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1304	14053	28727	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1376	14124	28798	1.13	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2805	15510	28261	2.37	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 68A (GPR68A) mRNA
3526	16282	28938	0.88	1.0E-58	4756081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16282	28939	0.88	1.0E-58	4756081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17941	30256	4.75	1.0E-58	AI141063.1	EST_HUMAN	oz43f01.x1 Soares_NH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1078129 3'
5761	18543	31465	1.31	1.0E-58	BE061890.1	EST_HUMAN	RC1-BT0254-280100-015-e01 BT0254 Homo sapiens cDNA
6764	19508	32533	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
8013	20708		0.5	1.0E-58	AW973537.1	EST_HUMAN	EST385637 MAGC resequences, MAGM Homo sapiens cDNA
8768	21460	34609	0.66	1.0E-58	4505314	NT	Homo sapiens myosin (M-protein) 2 (165kD) (MYOM2), mRNA
8880	21571	34714	0.91	1.0E-58	AV751001	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
8979	21669	34818	0.66	1.0E-58	AA412397.1	EST_HUMAN	z89f05.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
8979	21669	34819	0.66	1.0E-58	AA412397.1	EST_HUMAN	z89f05.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10086	22734	35949	1.21	1.0E-58	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA

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Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11780	24371		2.11	1.0E-58	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D81405.1	NT	Human MSH3 gene, exon10
2225	14953	27691	29.49	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
8080	20774	33904	2.49	8.0E-59	A1761963.1	EST_HUMAN	wh50d06.x1 NC1 CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15536		1.74	6.0E-59	BF035327.1	EST_HUMAN	601468531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
8144	20838	33970	0.61	6.0E-59	A1750970.1	EST_HUMAN	cn06h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn06h02 random
1748	14490	27189	1.32	6.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075788 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1748	14490	27180	1.32	6.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075788 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
3124	15889	28530	6.98	5.0E-59	A1807484.1	EST_HUMAN	wf48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358839 3'
4810	17345	29978	6.55	5.0E-59	X83497.1	NT	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
6892	17968	30526	7.5	5.0E-59	AW162304.1	EST_HUMAN	au66c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element;
8705	21397	34544	1.04	6.0E-59	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (38kD) (RPC39), mRNA
9804	22267	36443	1.62	6.0E-59	AV762869.1	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
10823	23506	36745	3.78	5.0E-59	11434908	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
776	13548	26210	1.66	4.0E-59	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
5450	18249	31138	1.03	4.0E-59	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12203	25238		1.91	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
9	12836		6.13	3.0E-59	AW965524.1	EST_HUMAN	EST377562 MAGE resequences, MAGI Homo sapiens cDNA
219	13030	25666	4.58	3.0E-59	7682247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1705	14448	27147	8.2	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1706	14448	27148	8.2	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2125	14856	27585	5.59	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2125	14856	27586	5.59	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3128	15891	28534	3.77	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3126	15891	28535	3.77	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3805	16557	29189	1.45	3.0E-59	4508044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4638	17372	30007	0.98	3.0E-59	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4738	17470	30107	0.92	3.0E-59	4759328	NT	Homo sapiens testis-specific XK-related protein on Y (XKRY) mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
4990	17713		0.97	3.0E-59	M95991.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 2
6126	18904	31872	2.12	3.0E-59	8924074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	18943	33020	1.94	3.0E-59	6484137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
7832	20527	33653	1.16	3.0E-59	X12556.1	NT	Human mRNA for dbi proto-oncogene
7832	20527	33654	1.16	3.0E-59	X12556.1	NT	Human mRNA for dbi proto-oncogene
8944	22692	35794	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
8944	22692	35795	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24746		6.04	3.0E-59	11417866	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
7693	20357		0.71	2.0E-59	BF373329.1	EST_HUMAN	MR0-F10144-250700-002-a10 F10144 Homo sapiens cDNA
8537	22160		6.32	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF365594.1	EST_HUMAN	RCO-NT0038-100700-032-e07 NT0038 Homo sapiens cDNA
10734	23421	36653	2.6	2.0E-59	AW410898.1	EST_HUMAN	fh07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
10734	23421	36654	2.6	2.0E-59	AW410898.1	EST_HUMAN	fh07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
11311	23970	37274	1.31	2.0E-59	H61604.1	EST_HUMAN	y49h09.r1 Scars fetal liver spleen 'NFLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP:POL_FENV1 P31792 POL' POLYPYRROLINE ;
12091	24595	31128	2.93	2.0E-59	AI631809.1	EST_HUMAN	wa36c12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542
12805	25263	30719	4.65	2.0E-59	L11645.1	NT	Q86542 RTVL-H PROTEIN, contains LTR7.b1 LTR7 repetitive element;
159	12974		3.03	1.0E-59	BE289411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1528	14276	26984	0.93	1.0E-59	T92522.1	EST_HUMAN	601170757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2412	15133	27870	1.19	1.0E-59	D11456.2	NT	ye26c09.r1 Stalagene lung (#937210) Homo sapiens cDNA clone IMAGE:116768 5' similar to SP:S21348
2412	15133	27871	1.19	1.0E-59	D11456.2	NT	S21348 HYPOTHETICAL PROTEIN 4 - ;
2623	15335		2.47	1.0E-59	AA748498.1	EST_HUMAN	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds
7462	20135	33227	1.08	1.0E-59	AJ130894.1	EST_HUMAN	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
7617	20283	33392	0.97	1.0E-59	BE256814.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
7617	20283	33393	0.97	1.0E-59	BE256814.1	EST_HUMAN	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9285	22039	35210	0.86	1.0E-59	11419630	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
8504	22157	35337	0.64	1.0E-59	11428849	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
9504	22157	35338	0.54	1.0E-59	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
10760	20135	33227	12.88	1.0E-59	AJ130894.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
747	13520	26178	0.85	8.0E-60	AW977845.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
							EST389848 IMAGE resequences, MAGO Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1455	14202	26886	2.65	8.0E-60	4759159	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.8	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
2169	14898	27633	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
5892	18877	31623	1.12	8.0E-60	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluronan-binding protein=hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7696	20264	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphate cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
7865	20560	33887	2.28	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8837	21528	34675	2.6	8.0E-60	11428949	NT	Homo sapiens S-antigen; retina and pineal gland (arrestin) (SAG), mRNA
8371	21946	35118	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8371	21946	35119	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36348	0.59	8.0E-60	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36686	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36687	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
796	13568	26228	0.98	7.0E-60	4504634	NT	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA
2124	14855	27594	1.08	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15493	28233	1.53	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	16898	28527	2.56	7.0E-60	4505498	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
9307	21974	35149	4.02	7.0E-60	H58041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
11337	24027	37331	2.11	7.0E-60	H58041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
2177	14906	27639	1.08	6.0E-60	BE964974.2	EST_HUMAN	601688751R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886069 3'
8336	21029		10.5	6.0E-60	H52456.1	EST_HUMAN	y78109.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201953 5' similar to contains OFR repetitive element
82	12908	25545	2.29	5.0E-60	AB07917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
82	12908	25546	2.29	5.0E-60	AB07917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2872	15738		1.27	4.0E-60	AA288037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7253	19937	33012	0.89	4.0E-60	BF198098.1	EST_HUMAN	h81f05.x1 NCJ_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
8024	21714		0.68	4.0E-60	AL163278.2	NT	Q67085 GTP-RHO BINDING PROTEIN 1
11267	23928	37218	1.29	4.0E-60	11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

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11267	23829	37220	1.29	4.0E-60	11433597	NT	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1852	14590	27305	4.44	3.0E-60	BE562611.1	EST_HUMAN	601338446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1852	14590	27306	4.44	3.0E-60	BE562611.1	EST_HUMAN	601338446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1862	14600		1.92	3.0E-60	6031190	NT	Homo sapiens prohibitin (PHB) mRNA
4424	17160	29760	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
5294	18099	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	QV4-NH1149-250900-423-f01 NN1149 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW838196.1	EST_HUMAN	RC3-LT0023-200100-012-a01 LT0023 Homo sapiens cDNA
6856	17933	30569	1	3.0E-60	AI792814.1	EST_HUMAN	d60H11.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE. P52624 URIDINE PHOSPHORYLASE:
8301	20886	34132	4.97	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8301	20995	34133	4.97	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	AID40235.1	EST_HUMAN	α56d09.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE_Q05860 FORMIN:
8941	21333	34477	4.32	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9559	22212	35398	0.47	3.0E-60	BF102812.1	EST_HUMAN	601646227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3930980 5'
11162	23829	37107	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
11162	23829	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
12686	25297		2.06	3.0E-60	AA485286.1	EST_HUMAN	ab07h04.r1 Strategene lung (#937210) Homo sapiens cDNA clone IMAGE:840161 5' similar to contains LTR10.1 LTR10 repetitive element:
29	12857	25474	3.63	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1404	14151	26831	7.35	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1716	14458	27155	1.29	2.0E-60	M24603.1	NT	Human bar protein mRNA, 5' end
1724	14467	27168	1.59	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2714	15421	28160	1.96	2.0E-60	AW978005.1	EST_HUMAN	EST390114 IMAGE resequences, MAGO Homo sapiens cDNA
3565	16321	28969	0.69	2.0E-60	4757967	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3885	16645	29285	0.73	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
6208	18983	31982	0.86	2.0E-60	AI791952.1	EST_HUMAN	nr01f12.y5 NCI_CGAP_C68 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.11 THR repetitive element:
6400	19169	32168	1.87	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6615	19378	32393	0.96	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6760	17919	30883	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

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7010	19702	32767	2.73	2.0E-60	AA311169.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to prothymosin, alpha
7010	19702	32768	2.73	2.0E-60	AA311199.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AI308124.1	EST_HUMAN	Q82805 GALANIN RECEPTOR ;
7632	20202		0.79	2.0E-60	BF532808.1	EST_HUMAN	UI-HBW1-enu-c-02-0-JL1 s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
7904	20599	33729	0.84	2.0E-60	X85597.1	EST_HUMAN	HS15B1EST human adult testis Homo sapiens cDNA clone CAM EST15
8766	21468	34608	3.01	2.0E-60	L38033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
9878	22528	35724	2.29	2.0E-60	11891659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMAGA), mRNA
9878	22528	35725	2.29	2.0E-60	11891659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMAGA), mRNA
11449	23216	36448	1.53	2.0E-60	11434729	NT	Homo sapiens fibronectin protein S6 kinase, 80kD, polypeptide 5 (RPS8KA5), mRNA
11809	24398	37732	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214883 5'
11809	24398	37733	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214883 5'
12364	24767		3.02	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12494	25228		1.93	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12496	24851		2.34	2.0E-60	11418088	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC63504), mRNA
12510	24862		1.77	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-9, complete cds
509	13293	25925	1.13	1.0E-60	BE178596.1	EST_HUMAN	PM3-HT0605-270200-001-e06 HTD605 Homo sapiens cDNA
3882	16632	29271	1.16	1.0E-60	AU143389	EST_HUMAN	AU143389 Y78AA1 Homo sapiens cDNA clone Y78AA1001854 5'
4901	17628	30245	1.2	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7848	20543	33671	0.91	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-n08 BT0311 Homo sapiens cDNA
8953	21345		3.46	1.0E-60	AA244041.1	EST_HUMAN	nc04e12.r1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.11 L1 repetitive element ;
8681	21373	34517	1.41	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED06 5'
1077	13835	26493	2.21	9.0E-61	AU118344.1	EST_HUMAN	AU118344 HEMBA1 Homo sapiens cDNA clone HEMBA1005593 5'
2678	15365	28129	1.16	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2505555 3'
2678	15365	28127	1.16	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2505555 3'
2951	15717		1.53	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
7796	20491	33814	1.05	8.0E-61	AA583968.1	EST_HUMAN	m59g06.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
124	12941	25583	1.97	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
124	12941	25584	1.97	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25583	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25584	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

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5034	12941	25583	1.04	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12941	25584	1.04	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
269	13067	25705	2.95	6.0E-61	BE409310.1	EST_HUMAN	601300338F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
783	13565	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300338F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1288	14047	26719	15	6.0E-61	AF119880.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1626	14372	27061	0.97	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350146 5'
1643	14389	27078	2.63	6.0E-61	AA596033.1	EST_HUMAN	nm65109.s1 NCI CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088887 3'
2123	14854	27583	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	16063	28711	9.37	6.0E-61	AU130889.1	EST_HUMAN	AU130889 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
5941	18723	31682	3.37	6.0E-61	S79249.1	NT	Ig-beta/B29=CD78b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7242	19927	33003	1.82	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20189	33282	1.67	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 21 (GTF21) mRNA, complete cds
11474	24075	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37385	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
12265	13565	26226	1.82	6.0E-61	BE409310.1	EST_HUMAN	601300338F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1874	14419	27112	2.22	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15798	28444	2.56	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3193	15958	28608	3.27	5.0E-61	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-I, Alzheimer disease) (APP), mRNA
3963	16712		1.78	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 173
4941	13149	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17769	30416	3.38	5.0E-61	4502286	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
5725	18517	31438	0.87	4.0E-61	7881637	NT	Homo sapiens DKFZP566B023 protein (DKFZP566B023), mRNA
12058	24582		3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 6'
8320	21013	34151	0.69	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDA0804
8598	21288	34427	0.64	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8598	21288	34428	0.64	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
486	13271	25906	1.52	2.0E-61	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
1190	13942	26807	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-001 HT0513 Homo sapiens cDNA
1190	13942	26808	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-001 HT0513 Homo sapiens cDNA
1650	14406	27097	1	2.0E-61	N53039.1	EST_HUMAN	y53d11.s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:248453 3' similar to gb:U25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2647	16357		1.04	2.0E-61	N39397.1	EST_HUMAN	W0311.1.1 Soares melanocyte 2Nbr-IM Homo sapiens cDNA clone IMAGE:270189 5'
8332	19102	32090	0.98	2.0E-61	11428168	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/118kD) (ATP6N1A), mRNA
8913	21604	34748	0.98	2.0E-61	AV894317.1	EST_HUMAN	AV894317 GKC Homo sapiens cDNA clone GKCELG06 5'
9492	22012		0.99	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0539 protein, partial cds
9822	22473	35678	1.67	2.0E-61	AW500256.1	EST_HUMAN	UI-HF-BND-eka-f-12-0-UI.1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078774 5'
10150	22798	36014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10789	23482		1.81	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
756	13528	26188	1.11	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA
1851	14589	27304	3.71	1.0E-61	6006983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2193	14922	27656	1.42	1.0E-61	AW827291.1	EST_HUMAN	xn11b09.y1 NCL_CGAP_L15 Homo sapiens cDNA clone IMAGE:2683369 5' similar to contains element MSR1 repetitive element
2839	15607	28257	1.47	1.0E-61	BE986363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'
3399	16128	28786	0.86	1.0E-61	7662319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3715	16488	29106	1.2	1.0E-61	BE174455.1	EST_HUMAN	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4407	17144	29773	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4407	17144	29774	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30157	8.11	1.0E-61	AW288181.1	EST_HUMAN	UI-H-BW0-ajt-b-08-0-UI.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2732871 3'
4804	17535	30158	8.11	1.0E-61	AW288181.1	EST_HUMAN	UI-H-BW0-ajt-b-08-0-UI.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2732871 3'
4905	17632	30247	0.76	1.0E-61	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5309	18114	30772	1.62	1.0E-61	M76423.1	NT	H.sapiens carbonic anhydrase VII (CA VII) gene, exons 4, 5, 6, and 7, and complete cds
5603	18398	31310	0.79	1.0E-61	7662303	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
5783	18584	31511	1.29	1.0E-61	11416891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6800	19481	32482	7.11	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (HP40) gene, complete cds
6991	19694	32732	0.67	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7091	19780	32845	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7091	19780	32848	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20728	33881	3	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8212	20906	34041	3.06	1.0E-61	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9182	21852		2.7	1.0E-61	AW899728.1	EST_HUMAN	MRO-BN0070-040400-010-h01 BN0070 Homo sapiens cDNA
9257	21936	35110	7.73	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
9928	22576	35775	5.24	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10531	23228	36492	2.84	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens P/Okl.19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11006	23878	36835	1.53	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12007	25273	30726	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12859	24959	30886	11.56	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10255	22903	36113	1.45	9.0E-62	BE064386.1	EST_HUMAN	RC4-BT0310-110300-016-f10 BT0310 Homo sapiens cDNA
4514	17249	28885	1.1	8.0E-62	AA830420.1	EST_HUMAN	cc86h11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLVRK
1085	13843	26501	1.62	7.0E-62	AV714334.1	EST_HUMAN	P31785 POL POLYPYRROLINE ;
3497	16263	28907	0.74	7.0E-62	P17480	SWISSPROT	AV714334 DCB Homo sapiens cDNA clone DCBAMA08 5'
5826	18616	31547	0.84	7.0E-62	11427866	NT	NUCLEAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1) (AUTOANTIGEN NOR-90)
11323	24014	37317	7.1	7.0E-62	AI208681.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
2998	15764		1.42	6.0E-62	U09410.1	NT	qg56a04.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3378	16138		4.1	6.0E-62	11418255	NT	O15103 HYPOTHETICAL: 27.3 KD PROTEIN ;
7525	20198	33289	3.03	6.0E-62	AI762801.1	EST_HUMAN	Human zinc finger protein ZNF131 mRNA, partial cds
7525	20198	33289	3.03	6.0E-62	AI762801.1	EST_HUMAN	Homo sapiens CGI-58 protein (CGI-58), mRNA
7894	20679		0.72	6.0E-62	AW501124.1	EST_HUMAN	w04402.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2388261 3'
8155	20849	33981	1.45	6.0E-62	11431139	NT	w04402.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2388261 3'
9254	21933	35106	3.27	6.0E-62	AW814393.1	EST_HUMAN	UI-HF-BPOP-alt-a-09-0-UIr1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
407	13192	25840	2.8	5.0E-62	AI950528.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51008), mRNA
2406	15127	27863	4.25	6.0E-62	AJ271735.1	NT	MR3-ST0203-130100-026-ec09 ST0203 Homo sapiens cDNA
2406	15127	27864	4.25	5.0E-62	AJ271735.1	NT	wx31e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2598	15312	28048	1.35	5.0E-62	U39487.1	NT	Q08379 GOLGIN-95 ; contains element MER22 repetitive element ;
2698	16312	28049	1.36	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3413	16171	28820	2.82	5.0E-62	4506758	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
4293	17032	26660	2.6	5.0E-62	AA431093.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region; segment 1/2
8447	21139	34278	0.55	5.0E-62	4506758	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
9477	22095	35267	6.45	5.0E-62	AW410687.1	EST_HUMAN	Human xanthine dehydrogenase/oxidase mRNA, complete cds
11231	23894	37180	2.85	5.0E-62	11425574	NT	Homo sapiens xanthine dehydrogenase/oxidase mRNA, complete cds
11231	23894	37181	2.85	5.0E-62	11425574	NT	Homo sapiens xanthine dehydrogenase/oxidase mRNA, complete cds
							Homo sapiens tyrosine receptor 3 (RYR3) mRNA
							zw78e08.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
							P47245 NARDILYSIN ;
							Homo sapiens tyrosine receptor 3 (RYR3) mRNA
							h07009.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861616 5'
							Homo sapiens muscle specific gene (M9), mRNA
							Homo sapiens muscle specific gene (M9), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13591	26258	1.95	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26259	1.95	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26259	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27918	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27917	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
3394	16153		6.34	4.0E-62	4557887	NT	gb:X57138.maf1 HISTONE H2B.2 (HUMAN);
5833	18822	31555	1.84	4.0E-62	4506978	NT	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to Homo sapiens keratin 18 (KRT18) mRNA
6204	18979	31958	1.9	4.0E-62	11420654	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
7071	19762	32826	1.84	4.0E-62	11421041	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7534	20204	33289	2.48	4.0E-62	7657057	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7534	20204	33300	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	20765	33894	1.06	4.0E-62	11429973	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8745	21437	34384	4.97	4.0E-62	AB033089.1	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
10934	23614	36864	4.45	4.0E-62	Z78766.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36865	4.46	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
11995	24533	37270	2.81	4.0E-62	11418086	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
12590	24947	30984	1.34	4.0E-62	11418322	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12645	24942	30991	16.72	4.0E-62	11417862	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12645	24942	30982	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12692	24976	30993	2.72	4.0E-62	11430460	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
72	12889	25535	0.89	3.0E-62	4557794	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3041	15807	28452	1.11	3.0E-62	AB040909.1	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28453	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3686	16439	29081	5.41	3.0E-62	X52858.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds Human cyclophilin-related processed pseudogene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8438	21130	34287	5.82	3.0E-62	AI632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2289903 3' similar to contains THR12
1209	13980	26627	2.36	2.0E-62	AL163284.2	NT	THR repetitive element;
8673	21365	34511	4.89	2.0E-62	BF328911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34512	4.89	2.0E-62	BF328911.1	EST_HUMAN	RCO-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-62	AF224669.1	NT	RCO-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
11659	24284		4.81	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mitomycinase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
1021	13781	28443	1.87	1.0E-62	AF248540.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1536	14283	28970	11.01	1.0E-62	L78810.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1791	14531	27239	1.04	1.0E-62	AA825207.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
2915	15881	28328	0.99	1.0E-62	AL039044.1	EST_HUMAN	at70e11.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1 CE03453
4317	17056		0.71	1.0E-62	BE168413.1	EST_HUMAN	DKFZp566F104.1 566 (synonym: hfkd2) Homo sapiens cDNA clone DKFZp566F104 5'
4490	17226	29855	1.57	1.0E-62	8923201	NT	QV0-HT0493-280200-135-112 HT0493 Homo sapiens cDNA
5071	17790	30405	0.9	1.0E-62	L23503.1	NT	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
6198	18972	31948	0.86	1.0E-62	U52111.2	NT	Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
7034	19726	32782	0.91	1.0E-62	AA490060.1	EST_HUMAN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
7045	19736	32786	2.94	1.0E-62	AA722878.1	EST_HUMAN	ab05c02.s1 Stralagene fetal refina 837202 Homo sapiens cDNA clone IMAGE:839608 3'
7045	19736	32787	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg88f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
8655	21347	34481	0.5	1.0E-62	AA280050.1	EST_HUMAN	zg88f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
8956	21647	34787	2.13	1.0E-62	7662289	NT	zg88f10.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
8956	21647	34798	2.13	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8999	21689	34839	2.02	1.0E-62	X15533.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8999	21689	34839	2.02	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9457	22007	35177	3.54	1.0E-62	AA465170.1	EST_HUMAN	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
11339	24029	37393	2.01	1.0E-62	Z78688.1	NT	aa33408.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'
11868	24450	37792	1.52	1.0E-62	11424055	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA14D8
12474	24638		2.25	1.0E-62	11418322	NT	Homo sapiens exosome component Rrp48 (LOC56915), mRNA
12673	24666	30990	2.99	1.0E-62	11430460	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
329	13130	25766	2.59	9.0E-63	AW816405.1	EST_HUMAN	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2345	15068		1.53	9.0E-63	C18159.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
							G18159 Human placenta cDNA (Tfujwara) Homo sapiens cDNA clone GEN-558C10 5'

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16766	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16766	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17895	37798	3.05	9.0E-63	11418185	NT	Homo sapiens acinifera 2, mitochondrial (ACO2), mRNA
5379	18179	30859	1.63	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for PKB kinase
7082	19772	32837	3.86	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20918	34059	1.38	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASFP2), mRNA
10816	23499	36736	2.03	9.0E-63	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23499	36737	2.03	9.0E-63	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2343	15066	27803	1.32	8.0E-63	4557734	NT	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	16095	27834	2.06	8.0E-63	6031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4234	16975	29600	3.31	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13875		2.09	7.0E-63	AB172137.1	EST_HUMAN	wm56g11.x1 NCL_CGAP_U2 Homo sapiens cDNA clone IMAGE:2439808 3'
5255	18081		48.05	8.0E-63	AA420803.1	EST_HUMAN	nc83102.1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00381 60S
8773	21465	34612	1.97	5.0E-63	11526464	NT	RIBOSOMAL PROTEIN (HUMAN);
3315	16076	28726	0.84	4.0E-63	AL163276.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3788	16540	29174	1.16	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29175	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B11-abq-e-02-Q-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	UI-H-B11-abq-e-02-Q-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1928	14684	27377	2.82	3.0E-63	AB018260.1	NT	EST172607 Ovary II Homo sapiens cDNA 5' end similar to zinc finger protein family
2782	15487	28225	2.26	3.0E-63	J00310.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2824	13987	28636	11.81	3.0E-63	6005963	NT	Human Met-RNA-1 gene 1
6392	19161	32160	32.78	3.0E-63	11545810	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
8605	22258	35444	1.15	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA
8605	22258	35445	1.15	3.0E-63	BE876158.1	EST_HUMAN	601486666F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
186	12989	25639	1.09	2.0E-63	U07804.1	NT	601486666F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
183	13006	28647	1.68	2.0E-63	4885226	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
807	13579	26244	5.57	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSR1), mRNA
1559	14308	26994	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1559	14308	26995	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1760	14502	27203	1.1	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE3638103 5'
3154	15917	28563	3.44	2.0E-63	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3279	16040	28690	2.02	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
3885	16835	29274	3.74	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5099	17818	30435	0.96	2.0E-63	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5181	25062	30505	1.25	2.0E-63	11419429	NT	Homo sapiens similar to octonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
5794	18585	31512	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
5794	18585	31513	2.98	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6093	18871	31837	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6093	18871	31838	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV6S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV6S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S*
6602	19365	32379	1.87	2.0E-63	U66059.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32425	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32426	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6975	19456	32477	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
6975	19456	32478	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
7078	20342	33454	0.87	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7713	20377	33480	0.56	2.0E-63	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
8431	21124	34262	3.86	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8952	21643	34791	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9839	22490	35691	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10847	23338	38577	6.43	2.0E-63	N78945.1	EST_HUMAN	zb18b05.s1 Soares_fetal_Jung_NHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17208.40S RIBOSOMAL PROTEIN S4 (HUMAN);
10872	23363	36804	2.96	2.0E-63	AF099810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
10872	23363	36805	2.96	2.0E-63	AF099810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
12098	25177	30807	5.97	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
1502	14248	26934	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1502	14248	26935	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	28672	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	28673	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5268	18074	30703	0.8	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5683	18476	31394	1.4	1.0E-63	AW582266.1	EST_HUMAN	QV0-ST0215-080100-083-b09 ST0215 Homo sapiens cDNA
6298	19071	32055	0.68	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alk-H-02-Q-J1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3088763 3'
6298	19071	32056	0.68	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alk-H-02-Q-J1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3088763 3'
8371	21064		2.88	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25286		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7768	20462	33986	4.36	9.0E-64	AI478186.1	EST_HUMAN	Im50b07.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161525 3'
1024	13784		6.16	8.0E-64	BE280798.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6049	18828	31782	3.88	8.0E-64	BE885755.1	EST_HUMAN	601508968F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
11918	24478		7.34	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
11970	24516		1.6	8.0E-64	T60651.1	EST_HUMAN	y598b02.r1 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:79179 5'
3520	16276		1.13	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4683	17417	30052	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4683	17417	30053	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
9933	22891	35778	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gar22, rp22 and bam22 genes
1716	14459	27156	1.63	6.0E-64	AI651892.1	EST_HUMAN	wb51e07.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M16182 BETA-
1716	14459	27157	1.63	6.0E-64	AI651892.1	EST_HUMAN	GLUCURONIDASE PRECURSOR (HUMAN);
3120	15985	28524	4.39	6.0E-64	AW026445.1	EST_HUMAN	GLUCURONIDASE PRECURSOR (HUMAN);
3120	15985	28525	4.39	6.0E-64	AW026445.1	EST_HUMAN	wf13e03.x1 NCI CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
5534	18332	31237	2.46	6.0E-64	Y18933.1	NT	wf13e03.x1 NCI CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
5534	18332	31238	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31239	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5555	18352	31291	4.08	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5564	18361	31269	1.26	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1 (KIAA0705), mRNA
5739	18331	31453	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5739	18531	31454	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7136	18823	32889	2.34	6.0E-64	11526878	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	18823	32890	2.34	6.0E-64	11526879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9228	21805	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9406	22068	36240	2.09	6.0E-64	AF274763.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
9618	22271	35488	2.78	6.0E-64	S76475.1	NT	trkC [human, brain, mRNA, 2716 nt]
10689	23360	36600	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10689	23360	36601	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW026445.1	EST_HUMAN	w13603.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28525	1.84	6.0E-64	AW026445.1	EST_HUMAN	w13603.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
12116	24608	31089	4.97	6.0E-64	11526188	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	26236	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1316	14064	26738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	26827	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1401	14148	26828	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1706	14449	27149	1.37	5.0E-64	U88358.1	NT	Human I(3)mbt protein homolog mRNA, complete cds
2829	14210	26897	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	26898	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16690	29328	6.71	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
4085	16828	29455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7716	20380	33493	0.58	4.0E-64	BE794607.1	EST_HUMAN	601590392F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
10716	23404	36644	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10716	23404	36645	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2195	14924	27658	5.41	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (Tf-ujwara) Homo sapiens cDNA clone GEN:569E02 5'
3249	16011	28602	0.89	3.0E-64	BE794381.1	EST_HUMAN	601590595F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3436	16192	28841	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3436	16192	28842	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
5980	18771	31734	1.21	3.0E-64	Z26273.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 28
6401	19170	32169	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8385	21088	34198	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8365	21088	34189	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8393	21088	34220	3.69	3.0E-64	BE206521.1	EST_HUMAN	b572h12.yt NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ
8393	21086	34221	3.69	3.0E-64	BE206521.1	EST_HUMAN	b572h12.yt NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ
9327	21894	35165	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
9327	21894	35166	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
9414	22092	35263	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9414	22092	35264	0.6	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
1086	13824	26484	1.84	2.0E-64	AA009940.1	EST_HUMAN	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
1377	14125	26788	1.54	2.0E-64	475770.1	NT	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
2528	15244		1.82	2.0E-64	AI927030.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
2533	15248	27987	2.05	2.0E-64	AL163246.2	NT	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
2533	15248	27988	2.05	2.0E-64	AL163246.2	NT	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
3137	15901	28546	1.42	2.0E-64	4604068	NT	Homo sapiens chromosome 21 segment HS21C046
3767	16519	29157	0.78	2.0E-64	AW958145.1	EST_HUMAN	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3767	16519	29158	0.78	2.0E-64	AW958145.1	EST_HUMAN	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
5916	18701	31655	2.78	2.0E-64	AU124387.1	EST_HUMAN	EST1370215 IMAGE resequences, MAGO Homo sapiens cDNA
6148	18925	31896	1.47	2.0E-64	AF113708.1	NT	EST1370215 IMAGE resequences, MAGO Homo sapiens cDNA
6394	19163	32164	5.21	2.0E-64	BF668537.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6497	19283	32284	1.16	2.0E-64	AU1078387.1	EST_HUMAN	Homo sapiens angiotensinogen 4 (ANG4) mRNA, partial cds
6601	19394	32378	4.54	2.0E-64	M77185.1	NT	602123474F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4280395 5'
7707	20371	33484	0.7	2.0E-64	11431054	NT	oz28b03.x1 Soares_tetral_fetus_Nb2HFB_9w Homo sapiens cDNA clone IMAGE:1676717 3'
7732	20396	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	H. sapiens dopamine receptor D5 pseudogene 1, partial cds
8567	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
8567	21259	34396	0.73	2.0E-64	11434008	NT	QV1-HT0413-010200-059-412 HT0413 Homo sapiens cDNA
8038	21728	34882	0.56	2.0E-64	11423508	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9130	21818	34984	0.97	2.0E-64	AU132570.1	EST_HUMAN	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9879	22529	35726	0.59	2.0E-64	T06397.1	EST_HUMAN	Homo sapiens hypodermal protein SBB167 (LOC57115), mRNA
9879	22529	35727	0.59	2.0E-64	T06397.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
10892	23353	36592	3.72	2.0E-64	BF628114.1	EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBD588
							EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBD588
							602042882F1 NCJ_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4180556 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10981	23666	36909	5.97	2.0E-64	A922811.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
10981	23666	36910	5.97	2.0E-64	A922811.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23663	37149	1.76	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA
12039	24662	31114	1.55	2.0E-64	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12468	24834		4.85	2.0E-64	H55162.1	EST_HUMAN	CHR220701 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
251	13060	25698	2.94	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1772	14514	27214	10.45	1.0E-64	A1928419.1	EST_HUMAN	au60c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518136 3' similar to gb:L21688_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3010	15776	28426	0.79	1.0E-64	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
3501	16257	28912	5.74	1.0E-64	AF196779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM6 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>
3572	16327	28974	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28975	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16631	29270	0.79	1.0E-64	8922828	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
8964	22612	35816	1.07	1.0E-64	AA042975.1	EST_HUMAN	zk5308.s1 Soares pregnant uterus_NbHPU Homo sapiens cDNA clone IMAGE:486667 3'
12012	24545		1.81	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2274	15000	27738	1.53	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2274	15000	27739	1.53	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
11523	24123		10.43	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-087199-017-e03 BT0257 Homo sapiens cDNA
11493	24094	37405	10.87	8.0E-65	A1928244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518005 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21. ;
10056	22703	35921	2.01	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
11807	24397	37731	1.27	7.0E-65	Z21378.1	EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test348 (b)
1034	13794	25454	3.59	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBZC08 5'
1915	14652		4.73	6.0E-65	AA550929.1	EST_HUMAN	nt86d10.s1 NCL_CGAP_P111 Homo sapiens cDNA clone IMAGE:998379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6475	19242	32242	0.62	6.0E-65	AA503692.1	EST_HUMAN	nt37607.s1 NCL_CGAP_P15 Homo sapiens cDNA clone IMAGE:954517
8845	21337	34481	2.3	6.0E-65	AW083262.1	EST_HUMAN	xc07b09.x1 NCL_CGAP_C021 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63308 Q63308
8909	21600	34742	3.46	6.0E-65	AA427878.1	EST_HUMAN	LONG INTERSPERSED REPEATITIVE DNA CONTAINING 7 ORF's. ; contains L1.b2 L1 repetitive element ;
8909	21600	34743	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_fetus_Nb2H-F8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8973	21693	34814	0.81	6.0E-65	A1065314.1	EST_HUMAN	zw53b06.s1 Soares_fetus_Nb2H-F8_9w Homo sapiens cDNA clone IMAGE:773747 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8973	21863	34815	0.81	6.0E-65	AI085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23468	36707	3.82	6.0E-65	BE567816.1	EST_HUMAN	601340495F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682877 5'
10968	23844	36897	1.52	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24081	37392	1.86	6.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1331	14080	26754	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2151	14881	27615	1.6	5.0E-65	AB033788.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
3260	16012	28663	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3250	16012	28664	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10364	23011	36226	1.01	5.0E-65	AF008688.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
188	13001	25642	2.02	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.J1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-65	AI266488.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc9weeks_2NbpHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
728	13502	26157	1.37	4.0E-65	AI266488.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc9weeks_2NbpHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
1056	13814	26475	1.38	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1469	14216	26903	11.06	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15060	27796	0.91	4.0E-66	BE221469.1	EST_HUMAN	hu25604.x1 NCI_CGAP_Mat15 Homo sapiens cDNA clone IMAGE:3171102 3'
2338	15060	27797	0.91	4.0E-66	BE221469.1	EST_HUMAN	hu25604.x1 NCI_CGAP_Mat15 Homo sapiens cDNA clone IMAGE:3171102 3'
3930	16980	29321	1.08	4.0E-65	AW993185.1	EST_HUMAN	RC2-BN0033-160200-013-603 BN0033 Homo sapiens cDNA
5124	17842	30459	1.03	4.0E-66	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
5124	17842	30460	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
6063	18842	31804	4.6	4.0E-65	AB033083.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6063	18842	31805	4.6	4.0E-65	AB033083.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6983	18676	32723	0.55	4.0E-65	AY008372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7017	19709	32795	0.97	4.0E-65	M19879.1	NT	Human clabindin 27 gene, exons 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7448	20124	33215	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7448	20124	33216	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33558	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
7741	20437	33559	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8044	21734	34888	0.63	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10480	23128		2.04	4.0E-65	AJ277548.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23664	36801	1.97	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CB00BE05 5'
11041	23712	36982	3.68	4.0E-65	AF118846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12319	13814	26475	1.46	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1551	14287	26984	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14568	27271	0.93	3.0E-65	A1000692.1	EST_HUMAN	ov23103.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3271	18032	28883	0.75	3.0E-65	4504950	NT	MSR1 repetitive element
3709	18462	29101	0.99	3.0E-65	A1000692.1	EST_HUMAN	Homo sapiens lamrinin, beta 1 (LAMB1), mRNA
4602	17337	29866	1.91	3.0E-65	6912385	NT	Homo sapiens testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
9969	22617	35920	1.44	3.0E-65	BE787368.1	EST_HUMAN	MSR1 repetitive element
11363	23174	36402	11.12	3.0E-65	AA430006.1	EST_HUMAN	Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
3399	16157	28809	5.75	2.0E-65	BF890294.1	EST_HUMAN	601478686F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'
6442	19210		2.46	2.0E-65	BE263373.1	EST_HUMAN	2w65a08.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
7032	19724	32780	32.07	2.0E-65	BF576922.1	EST_HUMAN	602165062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295968 5'
8744	21436	34582	1.08	2.0E-65	AK024463.1	NT	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3634741 5'
8744	21436	34583	1.08	2.0E-65	AK024463.1	NT	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289295 5'
10552	23243	39485	2	2.0E-65	11419247	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
11989	24615		3.65	2.0E-65	AA307904.1	EST_HUMAN	Homo sapiens SWIISNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
12431	25159		2.2	2.0E-65	BF246086.1	EST_HUMAN	Homo sapiens mRNA for FLJ00056 protein, partial cds
89	12915		1.59	1.0E-65	BF125544.1	EST_HUMAN	EST178755 Cdon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
528	13310	25943	1.44	1.0E-65	AB040946.1	NT	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073789 5'
2033	14768	27498	1.29	1.0E-65	BE466591.1	EST_HUMAN	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
3365	16124	28781	0.81	1.0E-65	BE466591.1	EST_HUMAN	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
3980	18728	28362	2.47	1.0E-65	4504082	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
3980	18728	28363	2.47	1.0E-65	4504082	NT	h224a09.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:3208888 3'
4183	16923	28951	2.01	1.0E-65	AW028940.1	EST_HUMAN	Homo sapiens glycican 4 (GPC4) mRNA
4183	16923	28952	2.01	1.0E-65	AW028940.1	EST_HUMAN	Homo sapiens glycican 4 (GPC4) mRNA
8152	20846	33977	2.04	1.0E-65	AW820481.1	EST_HUMAN	wk09c09.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	wk09c09.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33979	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0288-140200-042-f12 ST0288 Homo sapiens cDNA
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0288-140200-042-f12 ST0288 Homo sapiens cDNA

Table 4 Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8178	20872	34006	0.96	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8178	20872	34007	0.96	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8178	20872	34007	0.96	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone THYRO1000356 5'
8218	20912	34047	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
8218	20912	34048	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone IMAGE:4283313 5'
8218	20912	34048	2.03	1.0E-65	AU141295.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone NT2RP2004714 5'
8739	21431	34578	1.21	1.0E-65	BF698707.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8918	21609	34752	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8918	21609	34753	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone type 1 (ITPR1), mRNA
8928	21620		2.36	1.0E-65	11431994.NT	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
8928	21620		1.96	1.0E-65	7662227.NT	NT	Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9007	21697	34848					Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9377	21852	35124	5.05	1.0E-65	AI191716.1	EST_HUMAN	qd56a02.x1 Scarsa testis_NHT Homo sapiens cDNA clone IMAGE:1733460 3' similar to gb:M29681 ZINC FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element;
9785	22436	35643	1.11	1.0E-65	AU153793.1	EST_HUMAN	FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element;
10200	22848	36064	0.6	1.0E-65	AA068559.1	EST_HUMAN	AU153793 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10470	23118	36346	1.01	1.0E-65	AB037832.1	NT	Homo sapiens pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5'
10546	23242	36477	1.58	1.0E-65	M28187.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10546	23242	36477	1.58	1.0E-65	4506660.NT	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
10876	23367	36610	8.53	1.0E-65	BF998707.1	EST_HUMAN	Homo sapiens platelet factor 4 variation 1 (PF4var1) gene, complete cds
11075	23745	37018	2.24	1.0E-65	AI621017.1	EST_HUMAN	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11172	23839	37122	2.28	1.0E-65	AI621017.1	EST_HUMAN	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12013	24546		2.65	1.0E-65	11418041.NT	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12108	24604	31086	5.92	1.0E-65	11418322.NT	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
12518	24967		1.97	1.0E-65	11418248.NT	NT	Homo sapiens sulcatransferrase-related protein (SULTX3), mRNA
69	12897	25531	1.31	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
69	12897	25532	1.31	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
69	12897	25532	1.88	9.0E-66	5031980.NT	NT	Novel human gene mapping to chromosome 22
1332	14081	26756	1.88	9.0E-66	M87299.1	NT	Novel human gene mapping to chromosome 22
1332	14081	26757	5.51	9.0E-66	AA424304.1	EST_HUMAN	Novel human proteasome-associated pad1 homolog (POH1) mRNA
1467	14214		0.77	8.0E-66	BA424304.1	EST_HUMAN	Novel human proteasome-associated pad1 homolog (POH1) mRNA
4642	17376	30009	2.99	7.0E-66	BE064410.1	EST_HUMAN	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
11319	24010					EST_HUMAN	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4332	17071	26698	1.15	6.0E-66	AI924653.1	EST_HUMAN	Human transposon-like element, partial
		26699	1.15	6.0E-66	AI924653.1	EST_HUMAN	Human transposon-like element, partial
							z60cd05.r1 Soares_NHHMP.L S1 Homo sapiens cDNA clone IMAGE:767048 5'
							RC4-BT0311-141189-011-h06 BT0311 Homo sapiens cDNA
							wnt57n07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F1639.4A CE18595;
							wnt57n07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F1639.4A CE18595;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4332	17071	29700	1.15	8.0E-66	A1924653.1	EST_HUMAN	wn57h07.x1 NCI_CGAP_Lu18 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A
8333	21028		0.48	6.0E-66	BE178563.1	EST_HUMAN	CE18595 ;
11108	23778	37052	3.14	6.0E-66	X69181.1	NT	PM2-HT0604-030300-001-b08 HT0604 Homo sapiens cDNA
1348	14094	28769	1.45	5.0E-66	BE064410.1	EST_HUMAN	H.sapiens mRNA for ribosomal protein L31
5048	17765	30382	0.74	5.0E-66	BE898644.1	EST_HUMAN	RC4-BT0311-141199-011-108 BT0311 Homo sapiens cDNA
5048	17765	30383	0.74	5.0E-66	BE898644.1	EST_HUMAN	601681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
9184	21894	35028	16.11	5.0E-66	11420557	NT	601681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
773	13549	28209	0.88	4.0E-66	6879816	NT	601681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
1729	14471	27170	1.14	4.0E-66	AW897798.1	EST_HUMAN	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
2278	15004	27744	1.83	4.0E-66	X89211.1	NT	Homo sapiens fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2477	15195		3.02	4.0E-66	AJ223384.1	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
4733	17465		10.89	4.0E-66	9635487	NT	RC1-NN0068-100500-022-a02 NN0063 Homo sapiens cDNA
							H.sapiens DNA for endogenous retroviral like element
							Homo sapiens germ-line DNA upstream of Jkappa locus
							Human endogenous retrovirus, complete genome
							Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate
							cyclohydrolase (MTHFD2), mRNA
5463	18282	31153	3.73	4.0E-66	11428943	NT	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA
5657	18452	31368	1.15	4.0E-66	AW939119.1	EST_HUMAN	EST377546 MAGE resequences, MAGI Homo sapiens cDNA
6757	17928	30581	4.83	4.0E-66	AW966473.1	EST_HUMAN	
							Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7031	19723	32778	7.83	4.0E-66	U78168.1	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate
							cyclohydrolase (MTHFD2), mRNA
7529	18262	31153	0.72	4.0E-66	11428643	NT	Homo sapiens hypothetical protein FLJ20118 (FLJ20116), mRNA
7976	20871	33784	5.63	4.0E-66	11421638	NT	Homo sapiens endogenous retrovirus pHE.1 (ERV9)
8034	20729	33862	0.73	4.0E-66	X67147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
10556	23252	36489	1.97	4.0E-66	BF507483.1	EST_HUMAN	UI-H-BW1-arr-a-10-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
11351	24041	37344	1.28	4.0E-66	AB023215.1	NT	Homo sapiens mRNA for KIA0898 protein, partial cds
							Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5
1407	14154	26835	10.96	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5
							(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1407	14154	26836	10.96	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5
							(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1975	14711	27429	1.18	3.0E-66	N55323.1	EST_HUMAN	y227g12.r1 Soares multiple sclerosis 2NbhMSP Homo sapiens cDNA clone IMAGE:284328 6' similar to
							SW-H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:566812 ;
1975	14711	27430	1.18	3.0E-66	N55323.1	EST_HUMAN	y227g12.r1 Soares multiple sclerosis 2NbhMSP Homo sapiens cDNA clone IMAGE:284328 5' similar to
							SW-H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:566812 ;

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.16	3.0E-66	N55323.1	EST_HUMAN	y27g12.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW-H2B1, TIGCA P35068 HISTONE H2B.1/H2B.2, [2] PIR:B66612;
2711	15418	28156	3.54	3.0E-68	1141880	NT	Homo sapiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA
3115	16880	28520	6.3	3.0E-68	7682223	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5380	18180	30870	1.14	3.0E-66	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5490	18289	31186	0.73	3.0E-68	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5888	18479	31397	1.92	3.0E-68	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5888	18479	31398	1.92	3.0E-68	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
8425	22103	35275	0.82	3.0E-66	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
8618	22272	35459	0.52	3.0E-66	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8873	22821	35826	0.8	3.0E-68	7019480	NT	Homo sapiens probocadherin beta 1 (PCDH-beta1), mRNA
10420	23066	36287	0.97	3.0E-68	AF165659.1	NT	Homo sapiens myobdium cofactor biosynthesis protein E (MCBPE) mRNA, complete cds
11494	24095	37406	6.10	3.0E-66	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11808	24398	37730	1.57	3.0E-66	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
50	12879	25505	2.15	2.0E-68	7657334	NT	Homo sapiens Mtshepen/NIK-related kinase (MINK), mRNA
50	12879	25506	2.15	2.0E-68	7657334	NT	Homo sapiens Mtshepen/NIK-related kinase (MINK), mRNA
413	12824	25437	1.76	2.0E-68	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
413	12824	25438	1.76	2.0E-68	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1819	14558	27272	2.05	2.0E-68	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16268	28920	0.77	2.0E-66	8923280	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3747	16500	29134	0.88	2.0E-66	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-68	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4607	17342	29973	9.48	2.0E-68	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4607	17342	29974	9.48	2.0E-68	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
5726	18518	31439	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST380830 MAGE resequences, MAGJ Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST380830 MAGE resequences, MAGJ Homo sapiens cDNA
8746	21438	34585	2.26	2.0E-66	N45480.1	EST_HUMAN	y56c02.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:277826 5'
12329	25370		2.37	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSF1), mRNA
1078	14422		1.15	1.0E-66	BE887173.1	EST_HUMAN	801508376F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3908931 5'
2895	15662	28308	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15682	28310	1.38	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15692	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4362	15682	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5297	18102	30781	5.96	1.0E-66	BF673088.1	EST_HUMAN	602152996F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4284161 5'
5692	18486	31406	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04-NT0101 Homo sapiens cDNA
5692	18486	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04-NT0101 Homo sapiens cDNA
6839	18501	32526	1.57	1.0E-66	BF328823.1	EST_HUMAN	RC5-BN0183-010900-034-G06-BN0183 Homo sapiens cDNA
8357	21050	34189	1.19	1.0E-66	AA688868.1	EST_HUMAN	aa80a04.at NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:827282 3'
8326	21693	35164	0.84	1.0E-66	AA018828.1	EST_HUMAN	z657a12.11 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363118 5'
10270	22818	36129	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22818	36130	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10662	23542	36789	2.48	1.0E-68	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11509	24109	37422	1.8	1.0E-66	AW958744.1	EST_HUMAN	EST380820 MAGC resequences, MAGJ Homo sapiens cDNA
12113	24608		2.61	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13188	25841	1.52	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1361	14109	28784	2.89	7.0E-67	AA383418.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1547	14293	26978	1.38	7.0E-67	W85947.1	EST_HUMAN	EST66812 Testis I Homo sapiens cDNA 5' and similar to similar to C. elegans hypothetical protein, cosmid
1547	14293	26980	1.38	7.0E-67	W85947.1	EST_HUMAN	ZK3353
2028	14761	27489	2.06	7.0E-67	7657243	NT	zh56b05.f1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2028	14781	27490	2.06	7.0E-67	7657243	NT	zh56b05.f1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2813	13188	25841	3.4	7.0E-67	AW162232.1	EST_HUMAN	Homo sapiens Inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
5989	18770	31733	0.78	7.0E-67	10180685	NT	Homo sapiens Inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
6177	18954	31927	2.02	7.0E-67	11425572	NT	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
6177	18954	31928	2.02	7.0E-67	11425572	NT	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6823	19385	32389	1.29	7.0E-67	4885084	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
7531	20201	33296	1	7.0E-67	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7531	20201	33297	1	7.0E-67	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8222	20816	34052	0.59	7.0E-67	4557732	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
8830	21622	34669	0.59	7.0E-67	10836044	NT	1A (110/116kD) (ATP6N1A), mRNA
							Homo sapiens mitochondrial carrier family protein (LOC559572), mRNA
							Homo sapiens mitochondrial carrier family protein (LOC559572), mRNA
							Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
							Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11266	23918		1.58	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11677	24272	37594	6.37	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
11898	24465	37803	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11898	24465	37804	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12355	24759	31061	1.58	7.0E-67	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
548	13328	25960	2.12	6.0E-67	X88988.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
778	13550	26211	0.92	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1250	13998	26386	1.29	6.0E-67	Y14320.1	NT	Homo sapiens PMP69 gene, exons 3, 4, 5, 6 & 7
3166	15929	28578	1.17	6.0E-67	4508434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3431	16187	28835	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3431	16187	28836	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4106	16849	29474	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4106	16849	29475	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4657	17391	30025	5.01	6.0E-67	7837020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4657	17391	30026	5.01	6.0E-67	7837020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5101	17635		1.23	6.0E-67	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3215	15978	28629	1.91	5.0E-67	AF009880.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
10905	23585		1.89	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1308	14054	26728	0.93	4.0E-67	R60819.1	EST_HUMAN	Yn02d11.1 Scores adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:1483288 3' similar to SW:Z33A_HUMAN
7620	20615	33743	0.82	4.0E-67	AI733032.1	EST_HUMAN	q126c05.x5 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:167253 5'
8281	20975		1.24	4.0E-67	BF357321.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
10998	23669		1.39	4.0E-67	AA714294.1	EST_HUMAN	RC0-HT0934-150900-026-c03 HT0934 Homo sapiens cDNA
2816	13396	26031	1.55	3.0E-67	AA333768.1	EST_HUMAN	nv08a01.s1 NCL_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
3446	16202	28852	0.98	3.0E-67	BE094410.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
4646	17380	30012	2.87	3.0E-67	AW889159.1	EST_HUMAN	EST37903 Embryo, 9 week Homo sapiens cDNA 5' end
8081	20775	33905	1.53	3.0E-67	BF196068.1	EST_HUMAN	RC4-BT0311-141189-011-h08 BT0311 Homo sapiens cDNA
11224	23887		14.39	3.0E-67	AA927874.1	EST_HUMAN	MR3-SN0068-040500-008-f01 SN0068 Homo sapiens cDNA
183	12996	25635	0.81	2.0E-67	BE348354.1	EST_HUMAN	hr81f05.x1 NCL_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
825	13595	26265	7.3	2.0E-67	AW816405.1	EST_HUMAN	Q61095 GTP-RHO BINDING PROTEIN 1 ;
1083	13841		1.75	2.0E-67	AF167460.1	NT	qm18a07.s1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1641365 3'
							hw16g09.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183186 3' similar to WP:F23H11.9
							CE090917 ;
							QV4-S10234-161189-037-405 ST0234 Homo sapiens cDNA
							Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1877	14614	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:O84892 O84892 KIAA0798 PROTEIN;
1877	14614	27326	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:O84892 O84892 KIAA0798 PROTEIN;
2235	14963	27702	1.3	2.0E-67	11422948	NT	Homo sapiens hypothetical protein dJ482O23.2 (DJ482O23.2), mRNA
2235	14963	27703	1.3	2.0E-67	11422948	NT	Homo sapiens hypothetical protein dJ482O23.2 (DJ482O23.2), mRNA
2384	15105	27845	1.09	2.0E-67	AF509561.1	NT	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
2432	16163	27887	1.28	2.0E-67	4758795	NT	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3460	16216	28870	3.8	2.0E-67	AA825755.1	EST_HUMAN	zu91g01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
3984	16732	29366	3.03	2.0E-67	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
5981	18762	31726	0.8	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6034	18814	31774	5.54	2.0E-67	BF240788.1	EST_HUMAN	60187535F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6203	18978	31956	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6203	18978	31957	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6545	19310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A229.r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8456	21148	34290	0.82	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
8456	21148	34291	0.82	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
8895	21598	34724	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
8895	21598	34725	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9466	22076	35246	0.83	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
9608	22261	35447	0.97	2.0E-67	AV731333.1	EST_HUMAN	ULH-B12-ahn-e-10-Q-UJ.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10970	23846	36899	3.72	2.0E-67	BF034485.1	EST_HUMAN	601455262F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3858976 5'
10988	25433		-4.87	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11193	23858	37145	2.11	2.0E-67	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11434	23201	36433	1.86	2.0E-67	BF377168.1	EST_HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12235	25231	30819	1.36	2.0E-67	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
246	13055	25695	9.34	1.0E-67	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-I, Alzheimer disease) (APP), mRNA
592	13467	26114	1.01	1.0E-67	AA702784.1	EST_HUMAN	280b04.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
11845	24429	37770	8.58	1.0E-67	AI654867.1	EST_HUMAN	wb65c12.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2310550 3'
2174	14903	27636	2.13	8.0E-68	BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852254 5'
3851	16601	29238	4.86	8.0E-68	AA20458.1	EST_HUMAN	za82h10.r1 Stralagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3851	16801	29239	4.96	8.0E-68	AA209456.1	EST_HUMAN	zq82h10.r1 Striatagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 6' similar to
8000	20695	33822	0.55	7.0E-68	A1810505.1	EST_HUMAN	SW:SAV_SULAC Q07560 SAV PROTEIN.;
7737	20402	33518	0.58	6.0E-68	AB014520.1	NT	wb89e03.x1 NCJ_CGAP_P128 Homo sapiens cDNA clone IMAGE:2312880 3'
10347	22894	36213	2.47	6.0E-68	11422088	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
11097	23767	37042	1.61	6.0E-68	AF133901.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
12529	24875		1.78	6.0E-68	BE612584.1	EST_HUMAN	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12772	25028	30983	1.4	6.0E-68	BF310875.1	EST_HUMAN	601492087F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856761 5'
800	13572	26233	5.05	6.0E-68	AF231919.1	NT	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26234	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2783	15488	28226	1.36	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28553	3.23	5.0E-68	AB037852.1	NT	Homo sapiens chromosome 21 unknown mRNA
4457	17193	29819	0.73	5.0E-68	AL157845.1	EST_HUMAN	Homo sapiens mRNA for KIAA1431 protein, partial cds
6927	19389	32402	0.61	5.0E-68	7019512	NT	DKFZp547D207.1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547D207 5'
6927	19389	32403	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3i)-like 1 (RAB3IL1), mRNA
4918	17946		9.55	4.0E-68	P04408	SWISSPROT	Homo sapiens RAB3A interacting protein (rab3i)-like 1 (RAB3IL1), mRNA
5098	17817	30434	0.87	4.0E-68	7549804	NT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5874	18661	31602	0.7	4.0E-68	AF157063.1	NT	Homo sapiens sedlin (SEDL) gene, exon 4
6875	19592	32829	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32930	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7682	20250	33358	0.66	4.0E-68	D63478.2	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA
8938	21929	34771	5.05	4.0E-68	D83478.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8938	21929	34772	5.05	4.0E-68	D83478.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9077	21768	34928	3.08	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23605	36854	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
10925	23605	36855	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11115	23785	37061	1.26	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
11828	24412	37749	1.39	4.0E-68	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLalphas (partial) genes
11864	24448	37789	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11864	24448	37789	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3653	18408	28045	5.37	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.82	3.0E-68	A1342323.1	EST_HUMAN	q33h02.x1 Soares_fetal_lung_NbHL10W Homo sapiens cDNA clone IMAGE:1850281 3' similar to contains THR12 THR repetitive element;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10389	23045	36281	1.23	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2885	17883		15.31	2.0E-68	D00622.1	NT	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17368	30004	1.38	2.0E-68	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
6778	18520		9.64	2.0E-68	R46088.1	EST_HUMAN	y938g04.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34898 3'
6993	19445	32482	5.38	2.0E-68	BF035316.1	EST_HUMAN	601459514F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882034 5'
7270	18954	33030	0.73	2.0E-68	BF336745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34685	0.63	2.0E-68	Q05869	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36376	0.75	2.0E-68	N78483.1	EST_HUMAN	y278d07.r1 Soares multiple sclerosis 2NBHMS Homo sapiens cDNA clone IMAGE:289165 6'
11210	23873	37160	1.66	2.0E-68	BF330594.1	EST_HUMAN	QV0-BT0074-130989-014-g04 BT0074 Homo sapiens cDNA
77	12903	25641	1	1.0E-68	4605222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
289	13095	25737	13	1.0E-68	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-106 ST0234 Homo sapiens cDNA
2249	14977	27715	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14977	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3991	16739	28373	0.95	1.0E-68	BE298032.1	EST_HUMAN	60117002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
4969	17694	30302	0.92	1.0E-68	AA897343.1	EST_HUMAN	el47g12.s1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30874	1.37	1.0E-68	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
7678	20245	33350	1	1.0E-68	11436716	NT	Homo sapiens sentrinSUMO-specific protease (SENP1), mRNA
10373	23019	36235	0.6	1.0E-68	AA429538.1	EST_HUMAN	zw74d02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781923 6'
10758	23441	36885	1.85	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10758	23441	36886	1.85	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10818	23902	36741	3.5	1.0E-68	L78416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11148	23815	37098	1.71	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYOIC), mRNA
11226	23889	37178	1.62	1.0E-68	AF043129.1	NT	Homo sapiens interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
11270	23931	37223	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11270	23931	37224	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11668	24261	37584	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11668	24261	37585	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12511	12903	25541	2.66	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12719	26322	30712	2.11	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
19	12847	25460	1.16	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
19	12847	25461	1.16	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1008	13766	28428	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1008	13766	28427	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2276	15001	27740	1.15	9.0E-69	4788278	NT	Homo sapiens EphA4 (EPHA4) mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2276	16001	27741	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4109	16852	29479	0.71	9.0E-69	4757867	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23488		6.5	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000988 5'
3381	16140		1.09	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
8259	19033	32008	6.49	7.0E-69	9966912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
7762	20458	33591	9.09	6.0E-69	AJ192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20458	33582	9.09	6.0E-69	AJ192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
8873	21584	34709	1.07	5.0E-69	AA826039.1	EST_HUMAN	gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
507	13291		1.76	4.0E-69	AJ873630.1	EST_HUMAN	cd60a03.31 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
6074	25073	31384	1.42	4.0E-69	BE561063.1	EST_HUMAN	wm26h11.x1 NCI_CGAP_U4 Homo sapiens cDNA clone IMAGE:2437126 3'
5753	18545	31467	5.28	4.0E-69	AJ764973.1	EST_HUMAN	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
6531	19297	32301	2.71	4.0E-69	4557732	NT	wh57806.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2384810 3' similar to TR:O55137 O55137 ACTYL-COA THIOESTERASE. ;
6531	19297	32302	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21604	34651	0.52	4.0E-69	AU118634.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
377	13202	25848	3.69	3.0E-69	BE258012.1	EST_HUMAN	AU118634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
598	13376	26008	2.32	3.0E-69	AF221712.1	NT	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14294		3.19	3.0E-69	T80514.1	EST_HUMAN	yd08a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48836 A48836 SPEGF III=EGF REPEAT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
5163	17894	37797	3.64	3.0E-69	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6705	19620		0.67	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6759	17928	30563	0.74	3.0E-69	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
7272	19959	33032	0.68	3.0E-69	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSO) gene, nuclear gene encoding mitochondrial protein, complete cds
7320	20003	33082	1.83	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRA/NeurJunglin (CTNND2) mRNA, partial cds
7451	20127	33219	8.32	3.0E-69	AF268075.1	NT	Homo sapiens TRAF8-binding protein T8BP mRNA, complete cds
8270	20984	34106	0.88	3.0E-69	AW138646.1	EST_HUMAN	Homo sapiens TRAF8-binding protein T8BP mRNA, complete cds
8668	21358		0.65	3.0E-69	AA378399.1	EST_HUMAN	UI-H-B1-ecw-g-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716840 3'
9313	21080	35152	1.01	3.0E-69	X13223.1	NT	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to ribosomal protein S18 H. sapiens mRNA for N-acetylglucosamide-(beta 1-4)-galactosyltransferase

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9433	22111	35286	2.03	3.0E-69	X06233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9729	22380	35582	0.75	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10538	23235	36468	1.44	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S16a (RPS16A), mRNA
10745	23432		7.81	3.0E-69	AA376399.1	EST_HUMAN	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12024	24552		5.17	3.0E-69	11419157	NT	Homo sapiens HGC8.2 protein (HGC8.2), mRNA
126	13180	25827	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
126	13180	25828	1.84	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25827	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25828	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14615	27327	2.08	2.0E-69	BE257857.1	EST_HUMAN	601109444F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350074 5'
2848	15618		3.16	2.0E-69	AA431157.1	EST_HUMAN	zW71g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781682 5'
8432	21144	34284	1.08	2.0E-69	AA114270.1	EST_HUMAN	zm29g01.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 5'
1898	14441	27139	1.98	1.0E-69	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
4962	17687		0.74	1.0E-69	BE409094.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5959	18741	31700	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
5958	18741	31701	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
8508	19273	32274	4.37	1.0E-69	AW393969.1	EST_HUMAN	QV0-TT0010-031199-045-c07 TT0010 Homo sapiens cDNA
6721	19636	32678	1.26	1.0E-69	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6721	19636	32680	1.26	1.0E-69	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19571	32603	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6737	19571	32604	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19528	32554	1.14	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
6782	19528	32555	1.14	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35937	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10073	22721	35938	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10168	22816	36034	1.38	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10314	22861	36177	0.57	1.0E-69	BF528429.1	EST_HUMAN	602043782F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181325 5'
10782	23465		10.82	1.0E-69	4504918	NT	Homo sapiens keratin 8 (KRT8) mRNA
11864	24512	37261	1.74	1.0E-69	BF125887.1	EST_HUMAN	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12366	24769		4.45	1.0E-69	AB099994.1	EST_HUMAN	wf84e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element;

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Table 4.

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15691	27791	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4340	17078	28708	1.93	8.0E-70	L77668.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1808	14848	27280	1.01	7.0E-70	A1497807.1	EST_HUMAN	Im89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1808	14846	27281	1.01	7.0E-70	A1497807.1	EST_HUMAN	Im89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1923	14860	27371	1.88	7.0E-70	AA282955.1	EST_HUMAN	z15f04.1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:719239 5'
2056	14788		2.92	7.0E-70	5031668	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA
4199	16940	28668	3.67	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5395	18195	30888	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5395	18195	30889	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6926	19487	32509	2.18	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8330	21023	34159	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8330	21023	34160	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34457	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
8622	21314	34458	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
8953	21744	34902	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
8955	21744	34903	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9335	20408	33522	3.43	7.0E-70	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33551	2.69	7.0E-70	11526984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33552	2.69	7.0E-70	11526984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9556	22209	35394	0.57	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10186	22844	36058	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10198	22844	36059	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11010	23882	36941	1.54	7.0E-70	11428885	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11010	23882	36942	1.54	7.0E-70	11428885	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11697	24188	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24186	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	13821	26291	1.77	6.0E-70	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15230	27970	1.22	6.0E-70	8923889	NT	Homo sapiens CHP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2555	15598	28003	2.18	5.0E-70	7692307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2555	15598	28004	2.18	5.0E-70	7682307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11974	24519		2.75	5.0E-70	BE166034.1	EST_HUMAN	MR3-HT0497-150200-115-408 HT0497 Homo sapiens cDNA
6856	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Fetal brain, Strategene (cat#838208) Homo sapiens cDNA clone HFBDN25
6856	19613	32653	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-908 UM0003 Homo sapiens cDNA
6896	19013	32654	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-908 UM0003 Homo sapiens cDNA
1584	14330	27016	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
1584	14330	27017	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
5532	18330	31234	0.85	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5532	18330	31235	0.85	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5855	18942	31581	1.8	3.0E-70	AI831976.1	EST_HUMAN	wh90d3.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
8280	19053	32031	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
8280	19053	32032	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
10008	22656	35669	0.58	3.0E-70	BE502973.1	EST_HUMAN	h281h02.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
37	12865	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	W07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29268 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26080	14.09	2.0E-70	N42161.1	EST_HUMAN	W07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29268 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
689	13464	26113	1.7	2.0E-70	AI246899.1	EST_HUMAN	qx51h01.x1 NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1000	13760	26421	1.56	2.0E-70	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13915	26578	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1161	13915	26579	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1735	14478	27177	1.66	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	zf48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3615	16368	28011	0.78	2.0E-70	H37988.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
4027	18772	29404	5.06	2.0E-70	M09181.1	NT	yp68b04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:191599 5'
5428	18227	30939	8.7	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5428	18227	30940	8.7	2.0E-70	X72662.1	NT	H.sapiens gene for schwannomin (CS8)
6111	18888	31657	1.27	2.0E-70	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6538	19303	32307	1.75	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibronin isoform), complete cds
6569	19333	32342	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

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Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6997	17973	30530	1.69	2.0E-70	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA
7303	19886	33062	0.76	2.0E-70	AF288207.1	NT	Homo sapiens cysteinyl-tRNA synthetase mRNA, complete cds, alternatively spliced
7818	20514	33639	9.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8121	20816	33951	0.5	2.0E-70	11423599	NT	Homo sapiens amylo-1,8-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21250		0.8	2.0E-70	H47959.1	EST_HUMAN	y579g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:183682 5'
8667	21758	34918	0.95	2.0E-70	11526355	NT	Homo sapiens dynactin p62 subunit (LOC51184), mRNA
10038	22886	35904	1.46	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11006	23677	36933	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36934	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11639	24238	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6) mRNA
12353	24767	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12353	24757	31059	3.08	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.63	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.69	1.0E-70	W85795.1	EST_HUMAN	zh55g05.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416024 5'
9698	22349		0.65	1.0E-70	AA442292.1	EST_HUMAN	zv54c03.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23532	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLGB10 5'
5854	18641	31578	7.05	9.0E-71	AI143870.1	EST_HUMAN	q504f01.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6854	18641	31580	7.05	9.0E-71	AI143870.1	EST_HUMAN	q504f01.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6932	19668	32714	2.23	9.0E-71	AI654903.1	EST_HUMAN	w52c05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
11508	19668	32714	4.79	9.0E-71	AI654903.1	EST_HUMAN	w52c05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
8968	21658		5.03	8.0E-71	AA171451.1	EST_HUMAN	zp21d11.r1 Stratagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL ;
7275	19959	33038	8.9	7.0E-71	AA442230.1	EST_HUMAN	zv60h05.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
8978	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	z61a06.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462228 3'
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2207	14835	27673	5.97	6.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	16844	29472	1.36	5.0E-71	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
5790	16581	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6564	19329	32338	1.42	5.0E-71	11641408	NT	Homo sapiens keratin, hair, acidic, 7 (KRT7A7), mRNA
6821	19482	32504	1.43	5.0E-71	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7046	19737	32798	0.76	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7607	20273	33381	0.75	5.0E-71	11528445	NT	Homo sapiens MAGUK protein p57; Protein Associated with Lms 2 (LOC51678), mRNA
7634	20299	33408	22.56	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34251	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8421	21114	34252	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8811	22462		2.57	5.0E-71	X13467.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	36461	1.45	5.0E-71	5729500	NT	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
10901	23581	36831	2.93	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (Includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37097	2.57	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC633325), mRNA
340	13141	25778	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2889	15656	28299	1.97	4.0E-71	4505980	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	29762	3.37	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4926	17654	30268	5.57	4.0E-71	7657802	NT	Homo sapiens putative heme-binding protein (SOUL), mRNA
5069	17788	30404	1.1	4.0E-71	7019352	NT	Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA
7933	20628		1.41	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone IMAGE1002775 5'
10591	23285	36523	3.38	3.0E-71	AA557683.1	EST_HUMAN	n145h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE1043883 similar to contains PTR6.13 PTR6 repetitive element;
1208	13959	26626	2.02	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1721 5'
8903	21594	34735	0.64	2.0E-71	BF195585.1	EST_HUMAN	7n85c11.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE3571221 3' similar to TR:Q9Z165 Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	36357	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	36358	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10593	23267	36524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC:10 Homo sapiens cDNA clone IMAGE:3048764 5' similar to SW:R23B_HUMAN p54727 UV EXCISION REPAIR PROTEIN PROTEIN RAD23 HOMOLOG B;
11552	24151	37483	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tmuid22 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11552	24151	37484	1.38	2.0E-71	BF149173.1	EST_HUMAN	Tmuid22 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11576	24175	37480	2.35	2.0E-71	R55626.1	EST_HUMAN	y77c11.f1 Soares breast 2NdbHBst Homo sapiens cDNA clone IMAGE:164772 5'
12038	24361		8.43	2.0E-71	T95489.1	EST_HUMAN	y943609.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:120520 5'
623	13402	26037	1.83	1.0E-71	A1077927.1	EST_HUMAN	oy15e03.s1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1 b2 LOR1 repetitive element;
920	13987	26351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1078	13836	26494	6.15	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14066	26740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14808	27538	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2074	14808	27537	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2698	15407	28142	3.91	1.0E-71	7657153	NT	Homo sapiens hairyenhancer- α -split related with YRPW motif-like (HEY1), mRNA
3483	16249	28903	2.53	1.0E-71	AF119685.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3583	16338	28992	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3583	16338	28993	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_16 6' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218904.1	NT	Homo sapiens attractin precursor (ATRN) gene, exon 19
4437	17173	29801	1.92	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
4552	17287	29816	0.98	1.0E-71	H23176.1	EST_HUMAN	ym56h10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:62528 5'
6843	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
6888	19879	32726	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7211	19886	32971	13.35	1.0E-71	U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.69	1.0E-71	AF103267.1	NT	Homo sapiens glycican-6 (GPC6) mRNA, complete cds
8069	20763	33891	2.26	1.0E-71	11425430	NT	Homo sapiens myomecin (M-protein) 2 (165kD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10988 (FLJ10988), mRNA
8345	21038	34176	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10988 (FLJ10988), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	CSNK2A1=casein Kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
9908	22567	35752	7.89	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds
9988	22616		2.05	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10436	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
10694	23375		2.68	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10766	23478	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11093	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11093	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12401	24788		4.96	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
398	13183	25830	1.72	9.0E-72	AB57635.1	EST_HUMAN	wk95g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O88705 O88705 HYPOTHETICAL 38.6 KD PROTEIN, ;contains Alu repetitive element;
398	13183	25831	1.72	9.0E-72	AB57635.1	EST_HUMAN	wk95g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O88705 O88705 HYPOTHETICAL 38.6 KD PROTEIN, ;contains Alu repetitive element;
6020	18801	31762	0.97	8.0E-72	BF035752.1	EST_HUMAN	601458747F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	18834	28458	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	18834	28459	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	18834	29450	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41694.1	NT	(pseudogene) PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12620	24668		1.9	7.0E-72	F28259.1	EST_HUMAN	HSPD13670 HK43 Homo sapiens cDNA clone s4000051 G02
8263	20977		4.14	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS27C046
60	12889	25521	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-050010-150900-398-e11 CS0010 Homo sapiens cDNA
60	12889	25522	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-050010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25521	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-050010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25522	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-050010-150900-398-e11 CS0010 Homo sapiens cDNA
1117	13874		3.62	5.0E-72	L11646.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
6851	16551	32581	1.59	5.0E-72	AL128584.1	EST_HUMAN	AL128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003761 5'

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA316632.1	EST_HUMAN	EST188312 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to FAC1
8876	21367	34514	3.71	5.0E-72	AW161274.1	EST_HUMAN	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN ; contains element MSR1 repetitive element ;
9861	22511	35708	0.89	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11208	23871	37157	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-405 BT0598 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-405 BT0598 Homo sapiens cDNA
11643	24240	37563	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08q08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823808 5'
11643	24240	37564	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08q08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823808 5'
12107	25358		2.82	5.0E-72	BE926845.1	EST_HUMAN	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
5378	18178	30868	0.62	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds
6462	19229	32230	0.68	4.0E-72	T87947.1	EST_HUMAN	y493a01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115762 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7309	19992	33069	2.03	4.0E-72	5729867	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
9884	22336	35531	1.3	4.0E-72	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10292	22839	36162	0.48	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10292	22839	36163	0.48	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10320	22987	36188	0.92	4.0E-72	AI248786.1	EST_HUMAN	q187c02.x1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR, [1] ; contains Alu repetitive element; contains element L1 repetitive element ;
11255	23917	37210	1.57	4.0E-72	AA465388.1	EST_HUMAN	ea23i09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37211	1.57	4.0E-72	AA465388.1	EST_HUMAN	ea23i09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11514	24114	37424	7.78	4.0E-72	H79421.1	EST_HUMAN	y428a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11637	24234	37556	1.76	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	EST_HUMAN	y428d09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649 3'
12453	24822	31025	8.92	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
18	12848	26459	0.69	3.0E-72	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13852		1.62	3.0E-72	AA723823.1	EST_HUMAN	af63a06.s1 Soares testis_NHT Homo sapiens cDNA clone 1310280 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26646	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15838	28481	11.45	3.0E-72	AJ229043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	28684	2.17	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3903	16565	29186	2.69	3.0E-72	S77589.1	NT	TCR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) [human, precursor B-cell line REH, mRNA, Partial, 211 nt]
4508	17243	29878	3.12	3.0E-72	11416186	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4715	17447	30078	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4716	17447	30080	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4862	17991	30215	0.95	3.0E-72	AB64337.1	EST_HUMAN	wb31a08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307254 3'
5433	18232		1.27	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5991	18678	31621	2.1	3.0E-72	AF073387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
5991	18678	31822	2.1	3.0E-72	AF073387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31819	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6074	18853	31820	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6516	19281	32284	3.63	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
8075	20769	33998	0.96	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10331	22878	36198	1.2	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
5969	18666	31697	1.91	2.0E-72	11428871	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
8993	21683	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131481 5'
8993	21683	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131481 5'
10940	23331	36569	2.47	2.0E-72	AA789277.1	EST_HUMAN	428b09.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb:X02087 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);
12449	24819	31022	5.75	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA, complete cds
2068	14800	27627	1.19	1.0E-72	AA846225.1	EST_HUMAN	aib3d02.s1 Soares_papillary_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5680	18473	31390	3.63	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6464	19231	32231	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6464	19231	32232	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6536	25093	32305	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818.NPD Homo sapiens cDNA clone NPDAIE11 5'
7537	20207	33304	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7537	20207	33305	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9491	22144	35324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9491	22144	35325	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1444	14191	26875	1.35	9.0E-73	AW374968.1	EST_HUMAN	MR0-C10063-071089-002-111 C10063 Homo sapiens cDNA
10871	23551		15.11	9.0E-73	11424059	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1015	13774	28434	2.29	8.0E-73	AW071755.1	EST_HUMAN	ws5506.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2601088 3' similar to TR:Q69050
5493	19292	31190	1	8.0E-73	4505798	NT	Q69050 HYPOTHETICAL PROTEIN MJ1656 ;
6478	19245	32245	5.16	8.0E-73	11426469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7994	20889	33817	2.87	8.0E-73	AF113129.1	NT	Homo sapiens vacuolar ATPase isoform VA68 mRNA, complete cds
9253	21932	35105	6.25	8.0E-73	BE018900.1	EST_HUMAN	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9940	22292	36484	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9940	22292	36485	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10507	23153	36378	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNF1) mRNA
11573	24172	37488	1.29	8.0E-73	11418766	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12508	24859	31012	3.31	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1112	13869	26528	0.89	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3285	18056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
4891	17018		1.35	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
154	12869		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	17663	32827	3.48	6.0E-73	BE166574.1	EST_HUMAN	QV0-HT0494-020300-137-d03 HT0494 Homo sapiens cDNA
5173	17982	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM44A1), mRNA
1318	14067	26741	2.77	3.0E-73	AW843789.1	EST_HUMAN	GM0-CN0044-260100-164-108 CN0044 Homo sapiens cDNA
6598	19361	32374	0.71	3.0E-73	AA198403.1	EST_HUMAN	zn95604.s1 Striatagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to gb:Z23004_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8656	21348	34492	0.95	3.0E-73	AV729428.1	EST_HUMAN	AV729428.HTC Homo sapiens cDNA clone HTCAAF071 5'
8658	21348	34493	0.95	3.0E-73	AV729428.1	EST_HUMAN	AV729428.HTC Homo sapiens cDNA clone HTCAAF071 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.51	3.0E-73	AI004040.1	EST_HUMAN	ou11d02.x1 Sceres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1625655 3'
12734	25003		1.5	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C049
12738	25005		1.54	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
831	13901	26271	1.43	2.0E-73	AF139897.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1939	14874		1.78	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2296	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3177	16940	28690	3.99	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3538	16294	28943	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3538	16294	28944	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.89	2.0E-73	AF098824.1	NT	Mus musculus thofac-interacting citron kinase (Crik) mRNA, complete cds
6344	19114	32103	0.89	2.0E-73	AF098824.1	NT	Mus musculus thofac-interacting citron kinase (Crik) mRNA, complete cds
6389	19158	32159	6.27	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1551 protein, partial cds
6600	19363	32376	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6600	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7699	20362	33478	0.69	2.0E-73	M94048.1	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
8432	22110	35284	0.62	2.0E-73	AF198349.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
8432	22110	35285	0.52	2.0E-73	AF198349.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
10322	22969	36189	1.21	2.0E-73	4504168	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10394	23040	36257	1.31	2.0E-73	11496980	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10394	23040	36258	1.31	2.0E-73	11496980	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10987	23662	36917	3.37	2.0E-73	4557612	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10987	23662	36918	3.37	2.0E-73	4557612	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
11020	23682	36956	1.82	2.0E-73	AB028992.1	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
12283	14674		1.83	2.0E-73	AW898081.1	EST_HUMAN	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
1776	14518	27221	1.71	1.0E-73	AU121595.1	EST_HUMAN	Homo sapiens mRNA for KIAA1059 protein, partial cds
2488	15205	27946	1.12	1.0E-73	AF198349.1	NT	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
6266	18039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	AU121595 MAMMA1 Homo sapiens cDNA clone MAMMA1000460 5'
8989	22061	35230	1.37	1.0E-73	AI147427.1	EST_HUMAN	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
11428	23195	36426	2.95	1.0E-73	BE385477.1	EST_HUMAN	GM1-HT0282-111199-042-h10 HT0282 Homo sapiens cDNA
							qg61b07.r1 Sceres_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element ;
							801276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	26150	1.06	8.0E-74	4557426	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3428 nt]
5824	18613	31545	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3428 nt]
10791	23474		1.36	8.0E-74	NS2239.1	EST_HUMAN	yv49g10.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245828 3'
1942	14677	27360	2.59	7.0E-74	AJ001688.1	NT	Homo sapiens NKG2D gene, exon 10
3322	16082	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	35038	2.83	7.0E-74	BE967432.1	EST_HUMAN	601649284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932897 5'
12505	24858	31011	5.51	7.0E-74	BE266305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13858	28518	2.4	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27776	11.78	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2867	15634	28279	1.32	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2867	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	UI-H-B10-eah-h-03-Q-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3700	18453	29092	1.34	6.0E-74	BE048846.1	EST_HUMAN	UI-H-B10-eah-h-03-Q-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3700	18453	29093	1.34	6.0E-74	BE048846.1	EST_HUMAN	UI-H-B10-eah-h-03-Q-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
5281	18088	30744	3.02	6.0E-74	11056013	NT	h64e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
885	13654	28322	7.33	5.0E-74	AW020988.1	EST_HUMAN	Homo sapiens actin filament associated protein (AFAP), mRNA
2706	15413		2.82	5.0E-74	AW362756.1	EST_HUMAN	df17e09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
5322	18125	30784	1.86	5.0E-74	11425417	NT	PMO-C10289-271099-001-H07 C10289 Homo sapiens cDNA
5703	18497	31418	12.98	5.0E-74	X89870.1	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5748	18540	31482	7.41	5.0E-74	4507866	NT	H. sapiens mRNA for TPCR16 protein
5819	18608	31536	1.84	5.0E-74	11431471	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31537	1.84	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6765	19539	32567	6.88	5.0E-74	7662263	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7569	19539	32567	0.6	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7936	20631	33758	2.78	5.0E-74	11345483	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
10836	23328	36565	2.56	5.0E-74	Y09420.1	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10636	23328	36566	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	36687	2.68	5.0E-74	5729786	NT	H. sapiens mRNA for HIP-1
273	13080	26723	1.79	4.0E-74	DB0765.1	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
832	13602	26272	5.15	4.0E-74	AB028942.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
							Homo sapiens mRNA for KIAA1019 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1955	14690	27403	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14690	27404	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.99	4.0E-74	AB032994.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2427	15148	27882	27.23	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3088	15853	28495	5.2	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3518	16274	28928	0.82	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4041	16786	29414	1.03	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4520	17255	29889	2.23	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4573	17308	29937	0.89	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17738	30343	0.96	4.0E-74	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17738	30344	0.96	4.0E-74	4504328	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8448	21140		8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34309	0.79	3.0E-74	9866912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9272	22026	35198	2.99	3.0E-74	M78994.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHC9F91
10237	22885	35099	2.68	3.0E-74	AA601483.1	EST_HUMAN	nc017905.s1 NCI CGAP_Pha1 Homo sapiens cDNA clone IMAGE:1100984 3'
938	13705	26370	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	26371	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1162	13907	26870	1.11	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-147D
1222	13972	26844	1.36	2.0E-74	AJ950528.1	EST_HUMAN	ws61607.x1 NCI CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG85_HUMAN Q08379 GOLGIN-95, contains element MER22 repetitive element ;
1590	14336	27024	3.79	2.0E-74	4865198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1590	14336	27025	3.79	2.0E-74	4865198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2009	15321	28063	0.94	2.0E-74	AJ557280.1	EST_HUMAN	PT2.1_15_G11.r tumor2 Homo sapiens cDNA 3'
4945	17672	30281	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
4945	17672	30282	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	J02963.1	NT	Human platelet glycoprotein IIb mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE711134.1	EST_HUMAN	RC8-HT0878-220500-011-C03 HT0878 Homo sapiens cDNA
5806	25077	31521	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5806	25077	31522	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5876	25077	31521	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5876	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
7003	19695	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827548 5'
7841	20536	33663	1.29	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24687		3.95	2.0E-74	AA198181.1	EST_HUMAN	zp98a06.s1 Strelagene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
52	12881	25509	1.89	1.0E-74	7657334	NT	Homo sapiens Misschapey/NIK-related kinase (MINK), mRNA
328	13129	25764	5.02	1.0E-74	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
493	13277	25912	13.6	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	26995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
765	13638	26197	1.81	1.0E-74	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
978	13744	26406	2.27	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14951	27680	4.39	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3138	16900	28646	3.65	1.0E-74	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3368	18125	28782	0.9	1.0E-74	AA259549.1	EST_HUMAN	z60c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3368	18125	28783	0.9	1.0E-74	AA259549.1	EST_HUMAN	z60c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3901	16851	29292	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3901	16851	29293	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3950	16700	29338	4.81	1.0E-74	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
4042	18787	29416	1.15	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0842-270300-019-106 BT0842 Homo sapiens cDNA
6805	19368	32380	1.86	1.0E-74	MB9914.1	NT	Human neurofibromin (NF1) gene, complete cds
7528	20197	33291	1.15	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7955	20850	33773	1.13	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456280 5'
7955	20850	33774	1.13	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456280 5'
8704	21398	34643	4.92	1.0E-74	AF214592.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.65	1.0E-74	BF351951.1	EST_HUMAN	MRO-HT0559-230500-021-a03 HT0559 Homo sapiens cDNA
10140	22788	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22788	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10380	23028	36241	1.38	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11885	24458	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11885	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14951	27690	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12567	24897		1.53	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15360		3.68	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12254	24700		1.86	8.0E-75	AL183202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15044	27781	1.47	6.0E-75	AI817415.1	EST_HUMAN	wk38a08.x1 NCI_CGAP_P222 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gbM141423_cde4
7688	20352	33468	0.61	5.0E-75	AA573446.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
7688	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8808	21498	34843	0.94	5.0E-75	BE272325.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8015	21705	34855	0.6	5.0E-75	AA132611.1	EST_HUMAN	601126068F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2989865 5'
8083	21782	34946	0.78	5.0E-75	BE561695.1	EST_HUMAN	zo17608.r1 Stratagene colon (H937204) Homo sapiens cDNA clone IMAGE:587174 5'
9083	21782	34947	0.78	5.0E-75	BE561695.1	EST_HUMAN	601346909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35197	1.53	6.0E-75	BF690254.1	EST_HUMAN	601346909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
10134	22782	35993	2.39	5.0E-75	AI638623.1	EST_HUMAN	602186610T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3'
110	12831	25668	2.16	4.0E-75	BE081333.1	EST_HUMAN	h31c12.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361
448	13232		1.02	4.0E-75	N38757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN ;
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
2853	16621	28268	4.89	4.0E-75	BE409484.1	EST_HUMAN	y80h08.r1 Scores melanocyte 2NbrHM Homo sapiens cDNA clone IMAGE:269055 5'
3492	18248		0.94	4.0E-75	8922637	NT	CMO-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
5442	18241	31128	0.56	4.0E-75	11417946	NT	601303869F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
5442	18241	31129	0.56	4.0E-75	11417946	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
6176	18953	31826	5.78	4.0E-75	5579457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6861	19421	32438	2.28	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32437	2.28	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10584	23279	36517	18.12	4.0E-75	7669505	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
982	13747	26409	3.72	3.0E-75	AF157823.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
983	13747	26409	2.41	3.0E-75	AF157823.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1828	14667	27279	2.78	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2105	14836	27570	1.11	3.0E-75	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
2422	15143	27876	5.86	3.0E-75	4759153	NT	Homo sapiens synaptosomal-associated protein, 28kD (SNAP29) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28597	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0681 protein, partial cds
3345	16104	28757	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3345	16104	28758	0.76	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	16889	29521	3.27	3.0E-75	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4404	17141	29769	0.73	3.0E-75	7662421	NT	Homo sapiens KIAA0871 protein (KIAA0871), mRNA
5171	17980	30493	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17980	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5671	18588	32623	1.68	3.0E-75	11626319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6871	19588	32624	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.58	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7035	19727	32784	4.58	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7622	20193	33284	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7622	20193	33285	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNAIL), mRNA
9577	22230	36414	0.77	3.0E-75	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKEI1CHL), mRNA
10440	23086	36314	2.28	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18384		1.41	2.0E-76	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone cDABED02 5'
8648	21340	34484	2.45	2.0E-75	A1311783.1	EST_HUMAN	q691e02.x1 NCI CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1015898 3' similar to TR:Q68388 Q68386
2076	14808	27539	1.12	1.0E-75	4506328	NT	POL/ENV GENE;
2076	14808	27540	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2301	15028	27762	6.68	1.0E-75	AW168135.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2947	15713	28366	3.27	1.0E-75	X62221.1	NT	PTR7 repetitive element;
8313	21006		4.27	1.0E-75	AA399270.1	EST_HUMAN	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
8328	21995	35167	3.75	1.0E-75	BF313845.1	EST_HUMAN	z157h03.s1 Soares, Jests_NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13932 40S
9328	21995	35168	3.75	1.0E-75	BF313845.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
10797	23480		10.83	1.0E-75	AA664377.1	EST_HUMAN	601800294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126878 5'
11033	23704	36972	2.58	1.0E-75	AF223391.1	NT	601800294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126878 5'
							ac77h08.s1 Strabagene lung (#837210) Homo sapiens cDNA clone IMAGE:988599 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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11860	24444	37785	1.38	1.0E-75	AA417112.1	EST_HUMAN	zu04b03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17812	30598	1.84	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307183 3' similar to TR:O76235 O76235 TRAP1;
43	12872	25494	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307183 3' similar to TR:O76235 O76235 TRAP1;
9801	22452	35854	43.62	9.0E-76	MT12837.1	NT	Human ferritin Heavy subunit mRNA, complete cds
917	13684	26347	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
917	13684	26348	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2910	15878	28325	1	8.0E-76	7706724	NT	Homo sapiens mediator (Sur2), mRNA
6078	18658	31825	8.36	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7388	20067	33145	1.26	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7465	20139	33231	0.86	8.0E-76	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC558972), mRNA
8195	20889	34027	0.67	8.0E-76	11416981	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8895	21885	34835	0.55	8.0E-76	AB046764.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10277	22925	36137	1.35	8.0E-76	M13782.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10584	23260	36487	4.81	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 8 (BIRC8), mRNA
12491	24849		2	8.0E-76	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
759	13531	26191	1.41	7.0E-76	5016092	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3288	16049	28697	2.97	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	16055	28704	7.55	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16090	28743	0.93	7.0E-76	4757815	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	28705	4.73	7.0E-76	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
4338	17077	28708	4.73	7.0E-76	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13962		31.63	6.0E-76	BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3558757 5'
11442	23209	36440	3.76	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1936	14671	27385	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27386	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5188	17998	30512	1.26	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3874470 5'
8923	22571	35768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujwara) Homo sapiens cDNA clone GEN-178G01 5'

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9923	22571	35769	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujikura) Homo sapiens cDNA clone GEN:178G01 5'
615	13393	26026	3.2	3.0E-76	BF516262.1	EST_HUMAN	U1-H-BW1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
615	13393	26027	3.2	3.0E-76	BF516262.1	EST_HUMAN	U1-H-BW1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1594	14340	27029	3.26	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1594	14340	27030	3.26	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	16179	28828	4.98	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3422	16179	28829	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
4058	16803	29434	1.07	3.0E-76	BE348693.1	EST_HUMAN	h07112.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:O94888 O94888
6168	17891	37796	2.07	3.0E-76	Z41314.1	EST_HUMAN	HSCQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
5646	18441	31354	1.09	3.0E-76	AA160611.1	EST_HUMAN	gbl:32976 MIXED LINEAGE KINASE 1 (HUMAN);
6275	19048	32025	9.57	3.0E-76	AF285598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
8050	20744	33877	0.88	3.0E-76	N42671.1	EST_HUMAN	yt29g10.r1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:271842 5'
8916	22269	35456	3.34	3.0E-76	AW299353.1	EST_HUMAN	xs49h01.x1 NCI_CGAP_K111 Homo sapiens cDNA clone IMAGE:2773009 3'
8941	22283	35486	0.99	3.0E-76	AA442309.1	EST_HUMAN	zv54d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
9841	22293	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	zv54d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
11976	25191	30812	1.93	3.0E-76	AW967984.1	EST_HUMAN	EST380059 MAGC resequences, MAGC Homo sapiens cDNA
11979	25398	30802	4.86	3.0E-76	AW958455.1	EST_HUMAN	EST388525 MAGC resequences, MAGC Homo sapiens cDNA
275	13082	26726	1.59	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25769	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234		1.19	2.0E-76	4557662	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
576	13356	25984	1.08	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1008	13768	28430	1	2.0E-76	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1526	14273	26960	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1526	14273	26961	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27368	0.91	2.0E-76	AA253954.1	EST_HUMAN	zs60h11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701825 3'
2848	15614	28261	3.34	2.0E-76	P23268	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
							zv64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:760986 3' similar to SW:ITB5_HUMAN
3291	16052	28701	2.06	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR. ;
3291	16052	28702	2.06	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-6 SUBUNIT PRECURSOR. ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
3469	16225	28879	0.97	2.0E-76	AB21149.1	EST_HUMAN	aa83b02.y5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:869163 5' similar to TR:O14591
4114	13082	25725	1.23	2.0E-76	D84295.1	NT	O14591 SIMILARITY TO P22059 ; Human mRNA for possible protein TPRDII, complete cds
4895	17622	30240	6.21	2.0E-76	AW870618.1	EST_HUMAN	QV3-O10028-220300-132-b11 OT0028 Homo sapiens cDNA
5055	17774	30390	1.49	2.0E-76	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
5229	18033		1.6	2.0E-76	AF127845.1	NT	Gorilla gorilla olfactory receptor (GGO18) gene, partial cds
5531	18329	31233	6.47	2.0E-76	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7334	20016	33094	0.75	2.0E-76	11426908	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
7560	20230	33333	1.91	2.0E-76	11427410	NT	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA
10182	22830	36045	3.53	2.0E-76	11437211	NT	Homo sapiens similar to ribosomal protein S26 (H_sapiens) (LOC83160), mRNA
10839	23621	36763	3.58	2.0E-76	7549807	NT	Homo sapiens HIRA interacting protein 4 (dnaj-like) (HIRP4), mRNA
4265	17008	29638	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
4265	17008	29639	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5362	18164	30849	6.12	1.0E-76	BE796537.1	EST_HUMAN	601589896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6150	18927		0.72	1.0E-76	AA333207.1	EST_HUMAN	EST37301 Embryo, 8 week I Homo sapiens cDNA 5' end
6825	19488	32508	4.53	9.0E-77	BE889526.1	EST_HUMAN	601572435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
12644	24941		1.4	9.0E-77	BE410364.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3936763 5'
182	12994	25633	0.92	8.0E-77	R83144.1	EST_HUMAN	yp11h02.r1 Soares breast 3NBHBst Homo sapiens cDNA clone IMAGE:187155 5' similar to
4486	17221	29849	1.09	8.0E-77	BF205181.1	EST_HUMAN	SP-ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1 ; 601866626F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
5366	18168	30854	1.74	8.0E-77	4506230	NT	Homo sapiens proteasome (prosome, macropain) 28S subunit, non-ATPase, 7 (Moy34 homolog) (PSMD7) mRNA
11360	24048	37351	1.91	8.0E-77	AA019770.1	EST_HUMAN	ze62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
11360	24048	37352	1.91	8.0E-77	AA019770.1	EST_HUMAN	ze62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
12020	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	ye69f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
1922	14659	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	MER10 repetitive element ; zu91g01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
2411	15132	27868	2.62	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
2411	15132	27869	2.62	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
256	13084	25703	8.53	8.0E-77	4504600	NT	Homo sapiens Interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1534	14281	26969	3.22	8.0E-77	AB204068.1	EST_HUMAN	q67h12.x1 Soares fetal lung_NHL19W Homo sapiens cDNA clone IMAGE:1745063 3'
1214	13664	26631	2.11	5.0E-77	AF041015.1	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
1339	14087	26763	1.77	5.0E-77	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2891	15400	28139	0.98	5.0E-77	AF162866.1	NT	Homo sapiens tousel-like kinase 1 (TLK1) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.99	6.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	16268	28923	0.89	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18) mRNA
4655	17389	30022	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3) mRNA
4655	17389	30023	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3) mRNA
4884	17611	30231	2.96	5.0E-77	AL043953.1	EST_HUMAN	DKFZp434G1728_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G1728 5'
6666	18603	32642	0.57	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.69	6.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343), mRNA
8266	20960	34089	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8266	20960	34100	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9469	22078	35249	2.48	6.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9469	22078	35250	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10388	23034	36249	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11784	24384	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11784	24384	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10188	22836	36050	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.r1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10188	22836	36051	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.r1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10785	23468	36709	3.58	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	26753	1.4	2.0E-77	AV764617.1	EST_HUMAN	AV764617 MDS Homo sapiens cDNA clone MDSBTF10 5'
1412	14160	26844	1.91	2.0E-77	AW997712.1	EST_HUMAN	RC3-BN0083-170200-011-h01 BN0083 Homo sapiens cDNA
2084	14816	27548	1.13	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2086	14827	27660	5.23	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51634), mRNA
2602	15699	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2602	15699	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16758	28386	1.96	2.0E-77	BE044316.1	EST_HUMAN	hw22g02.x1 NCL CGAP_Brm52 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2 HUMAN P10264 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17116	28749	0.74	2.0E-77	AB13519.1	EST_HUMAN	hw22g02.x1 NCL CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2280466 3' similar to TR:O65245
4379	17116	28750	0.74	2.0E-77	AB13519.1	EST_HUMAN	O65245 F21E10.7 PROTEIN ;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4557	17292		0.98	2.0E-77	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30092	1.59	2.0E-77	AA653025.1	EST_HUMAN	ns68g12.s1 NCL CGAP_P12 Homo sapiens cDNA clone IMAGE:1188538 similar to SW:RL29_HUMAN
5863	18652	31593	1.9	2.0E-77	BE288940.1	EST_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29. [1]: contains element MSR1 repetitive element;
6080	18859	31826	1.73	2.0E-77	BE787143.1	EST_HUMAN	601116852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028436 5'
7074	19765	32829	15.45	2.0E-77	AI833003.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878503 5'
8427	21120	34259	0.82	2.0E-77	AI62707.1	EST_HUMAN	at74a09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
8428	22106	35280	5.03	2.0E-77	U50321.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP151. [1];
8428	22106	35281	5.05	2.0E-77	U50321.1	NT	qy70c09.x1 NCL CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F2BD11.1
9885	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	CE05785 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN;
9885	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
268	13074	25714	7.19	1.0E-77	4502168	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
268	13074	25715	7.19	1.0E-77	4502168	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
855	15554	26298	17.31	1.0E-77	4502168	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
855	15554	26297	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1912	14849	27360	0.9	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2445	15164	27902	1.32	1.0E-77	AB029024.1	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3040	16006	28451	1.72	1.0E-77	4503300	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4320	17059	29684	3.37	1.0E-77	7706289	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4488	17223	29851	16.41	1.0E-77	AJ228041.1	NT	ww83e05.x1 Sceres_thymus_NHFTn Homo sapiens cDNA clone IMAGE:2536160 3'
4603	17338	29867	2.29	1.0E-77	6552322	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
5010	17732	30337	1	1.0E-77	7661849	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECOR1), mRNA
5010	17732	30338	1	1.0E-77	7661849	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
5839	18627	31661	2.45	1.0E-77	AF086944.1	NT	Homo sapiens 969 kb contig between AML1 and GBR1 on chromosome 21q22; segment 1/3
							Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
							Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
							Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
							Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5839	18627	31562	2.45	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
5858	18738	31897	1.4	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
6368	19126	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
6953	19436	32460	21.7	1.0E-77	5881412	NT	Homo sapiens elastin (supraaortic aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7684	20234	33338	1.05	1.0E-77	11420158	NT	Homo sapiens cullin 1 (CUL1), mRNA
7683	20327	33437	0.89	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
8165	21835	35000	0.82	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
8165	21835	35001	0.82	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10421	23067	36288	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10421	23067	36289	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10449	23095	36326	2.55	9.0E-78	AW753302.1	EST_HUMAN	RC3-CT0294-280999-011-505 CT0254 Homo sapiens cDNA
6354	19124	32117	3.11	8.0E-78	AW947081.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
6354	19124	32118	3.11	8.0E-78	AW947081.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
84	12810	26548	1.87	6.0E-78	U118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
84	12910	25549	1.87	6.0E-78	U118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
6465	19232		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFR1), mRNA
212	13024	25863	0.72	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2587	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	ba54h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y4886A.6
3380	16139	28797	3.81	6.0E-78	M65986.1	NT	CE22121 ;
5327	18130	30789	2.33	5.0E-78	AF038536.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5488	18287	31183	11.12	5.0E-78	11416585	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
7054	19745	32808	2.23	5.0E-78	AW963120.1	EST_HUMAN	Homo sapiens transforming growth factor, beta-induced, 68kd (TGFB1), mRNA
8981	21671	34821	6.79	5.0E-78	U60889.1	NT	EST3365190 MAGE resequencing, MAGE Homo sapiens cDNA
8982	21672	34822	3.31	5.0E-78	BE960836.1	EST_HUMAN	Human lysosomal alpha-mannosidase (manB) gene, exon 7
1115	13872	26531	1.07	4.0E-78	ALD43314.2	EST_HUMAN	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3931887 5'
1508	14254	26940	1.78	4.0E-78	AL355841.1	NT	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
1644	14390	27078	1.09	4.0E-78	AI885094.1	EST_HUMAN	Novel human gene mapping to chromosome 22
2316	15041	27779	2.08	4.0E-78	AF107405.1	NT	wf97b12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
4288	17027	29652	1.73	4.0E-78	7656878	NT	O48655 WHEY ACIDIC PROTEIN PRECURSOR ;
4722	17454	30088	2.61	4.0E-78	4505806	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4722	17454	30089	2.61	4.0E-78	4505806	NT	Homo sapiens synectin (LOC30816), mRNA
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
							Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
							Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7390	20069	33148	0.58	4.0E-78	4508738	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
9268	22022	35182	0.0	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22889	36208	1.95	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22889	36207	1.95	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11398	24002	37305	5.18	4.0E-78	AF169148.1	NT	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds
11547	24148	37456	2.15	4.0E-78	X05944.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24868	31016	3.57	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
157	12972	25810	1.39	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
157	12972	25811	1.39	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
3748	18499	29181	0.98	3.0E-78	AU140604	EST_HUMAN	AU140604 PLAC33 Homo sapiens cDNA clone PLAC33000373 5'
3788	18548	29181	0.72	3.0E-78	4507334	NT	Homo sapiens synaptobiotin 1 (SYNJ1), mRNA
4084	18548	29181	0.96	3.0E-78	4507334	NT	Homo sapiens synaptobiotin 1 (SYNJ1), mRNA
5094	17813	30430	0.93	3.0E-78	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
10186	22834	36832	5.14	3.0E-78	BE144788.1	EST_HUMAN	CMO-HT0180-041099-066-c07 HT0180 Homo sapiens cDNA
10802	23582	36832	1.97	3.0E-78	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-q09 HT0367 Homo sapiens cDNA
3119	15884	3119	2.17	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
3986	16743	33126	1.87	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' and
7367	20047	33126	1.54	2.0E-78	AW402306.1	EST_HUMAN	U1-HF-BK0-ea1-g-10-0-U1.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7367	20047	33127	1.54	2.0E-78	AW402306.1	EST_HUMAN	U1-HF-BK0-ea1-g-10-0-U1.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7631	20297	33405	3.99	2.0E-78	BF689800.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288589 5'
7940	20635	33762	2.33	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAW F09 5'
8351	21044	34180	1.4	2.0E-78	AI557509.1	EST_HUMAN	P12.1_16_B07.r tumor2 Homo sapiens cDNA 3'
8351	21044	34181	1.4	2.0E-78	AI557509.1	EST_HUMAN	P12.1_16_B07.r tumor2 Homo sapiens cDNA 3'
11017	23689	36952	3.27	2.0E-78	AI197837.1	EST_HUMAN	q150105.x1 NCI_CGAG_Brr25 Homo sapiens cDNA clone IMAGE:1856961 3' similar to WP:R80.1
11068	23738	37012	3.89	2.0E-78	NG6951.1	EST_HUMAN	CE06325 PROTEIN KINASE:
4123	16885	29491	3.07	1.0E-78	4507098	NT	z848712.s1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:285823 3'
4123	16865	29492	3.07	1.0E-78	4507098	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25) mRNA
5222	18029	30855	2.63	1.0E-78	11417304	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25) mRNA
6857	17934	30570	0.76	1.0E-78	AV648699	EST_HUMAN	Homo sapiens GAP-like protein (LOC51308), mRNA
7738	20401	33517	0.95	1.0E-78	AU122163.1	EST_HUMAN	AV648699 GJC Homo sapiens cDNA clone GLCBM001 3'
							AU122163 MAMMA1 Homo sapiens cDNA clone MAMMA1001785 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8059	20753		3.28	1.0E-78	U52373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12045	24555	31117	1.39	1.0E-78	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	25244	30718	1.55	1.0E-78	AI650918.1	EST_HUMAN	wa20b08.xt NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2288615 3'
4650	17384	30016	4.05	9.0E-79	11526891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30188	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
5346	18149	30828	16.87	8.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6248	19022	31994	2.38	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/E) (UBE2E3) mRNA
7251	25108		0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20148	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7473	20146	33240	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20838	34074	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8244	20838	34075	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8961	21652	34802	5.1	9.0E-79	JO2853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
8961	21652	34803	5.1	9.0E-79	JO2853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9280	22034	35206	0.58	9.0E-79	D97675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10263	22911	36121	0.82	9.0E-79	11438643	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22865	36182	1.73	9.0E-79	AF082346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10318	22865	36183	1.73	9.0E-79	AF082346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11001	23674	36930	3.13	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11497	24098	37410	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11497	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
3725	16478	29115	0.91	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11968	17910	30596	1.82	8.0E-79	8567387	NT	Homo sapiens perlecan (Drosophila) homolog 3 (PER3), mRNA
3247	16009	28660	26.39	7.0E-79	BE618648.1	EST_HUMAN	601472766T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3876657 3'
11899	24468		4.32	6.0E-79	AA698828.1	EST_HUMAN	z94e04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462558 3' similar to
11478	24079	37390	2.52	5.0E-79	AL163282.2	NT	TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
3173	15936		1.49	4.0E-79	8922326	NT	Homo sapiens chromosome 21 segment HS21C082
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens intercedin short isoform (ITSN) mRNA, complete cds
3095	15960	28501	1.51	3.0E-79	U09410.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Cin) gene, complete cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Human zinc finger protein ZNF31 mRNA, partial cds
5637	18432	31345	1.24	3.0E-79	AB020699.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
							Homo sapiens mRNA for KIAA0892 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5662	18457	31371	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	18457	31372	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	18475	31392	3.58	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5662	18475	31393	3.58	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5646	19408	32422	0.67	3.0E-79	BE256893.1	EST_HUMAN	601112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
5660	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
5660	19442	32458	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7728	20389	33603	0.76	3.0E-79	6912466	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8064	20758	33887	1.61	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8303	21970	35144	1.33	3.0E-79	10835036	NT	Homo sapiens tetrahydropeptide repeat domain 3 (TTC3), mRNA
10245	22893		1.24	3.0E-79	AV698115.1	EST_HUMAN	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
10768	23452	36894	1.62	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10768	23452	36895	1.62	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088		0.99	2.0E-79	H63129.1	EST_HUMAN	y4803 s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:208541 3'
619	13398	26033	1.6	2.0E-79	BE376926.1	EST_HUMAN	601159415F2 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3511107 5'
607	13674	26339	2.28	2.0E-79	4757841	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1012	13772		2.09	2.0E-79	AI523747.1	EST_HUMAN	th18h07.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2118685 3'
1781	14522	27228	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27607	5.93	2.0E-79	4585983	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2144	14874	27608	5.93	2.0E-79	4585983	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2189	14918	27652	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2721	15428	28166	1.09	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
3893	16643	28283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4144	16886	29517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5585	18382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182928 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid B0303.15
5640	18435	31348	0.8	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6149	18926	31696	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6884	17941	30577	0.89	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19759	32622	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7067	19759	32623	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7999	20694	33821	1.08	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA

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Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
8694	21356	34503	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8694	21356	34504	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8902	21593	34734	1.65	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M9-9 (H. sapiens) (LOC63961), mRNA
9992	22640	35850	1.44	2.0E-79	S72869.1	NT	H4(D10S170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9992	22640	35851	1.44	2.0E-79	S72869.1	NT	H4(D10S170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10598	23389	36827	12.34	2.0E-79	U07819.1	NT	Human contactin 1 precursor (CNTN1), mRNA, complete cds
10956	23632	36880	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10956	23632	36881	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11936	17808	30594	2.16	2.0E-79	7682357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12238	24690	31075	2.89	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6492	26091		3.76	1.0E-79	BF363071.1	EST_HUMAN	MRO-NN0087-260800-017-b10 NN0087 Homo sapiens cDNA
8143	20837	33969	0.78	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632809 5'
11623	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0640-120900-358-a05 HT0540 Homo sapiens cDNA
12047	25333		1.8	1.0E-79	A1460115.1	EST_HUMAN	ar79a04.x1 Barstead clone HPLRB7 Homo sapiens cDNA clone IMAGE:2151438 3'
3143	15907	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	ai23a05.e1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3143	15907	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	ai23a05.e1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
9912	22661	36757	1.14	9.0E-80	BE788603.1	EST_HUMAN	601591652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936061 5'
11245	23907	37199	8.66	9.0E-80		NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
11245	23907	37200	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
3588	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7504	20175	33268	3.07	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
9302	21959	35142	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9302	21959	35143	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	6.0E-80	A1422197.1	EST_HUMAN	if58d02.x1 NCI_QGAP_Brn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN
1638	14394	27071	2.22	6.0E-80	U64898.1	NT	Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ; Homo sapiens NRD convertase mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	16993	29620	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	16993	29621	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421462	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5984	18765	31729	3.37	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6135	18913	31862	4.69	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18956		1.17	6.0E-80	7662393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6230	19004	31980	0.96	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34761	1.61	6.0E-80	AL183301.2	NT	Homo sapiens chromosome 21 segment HS21C101
8259	21938	35113	0.83	6.0E-80	AF161495.1	NT	Homo sapiens HSPC146 mRNA, complete cds
8761	22412	35619	1.46	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
10861	23541	36788	2.83	6.0E-80	11427368	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11187	23652	37138	26.56	6.0E-80	AF226730.1	NT	Homo sapiens Cyt18 mRNA, complete cds
11702	24297	37923	1.59	6.0E-80	U76560.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11766	24347	37677	1.5	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
11802	24392	37725	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11802	24392	37726	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11906	13649	26318	1.88	6.0E-80	A1422197.1	EST_HUMAN	U58402.x1 NCI CGAP Brm23 Homo sapiens cDNA clone IMAGE-2103459 3' similar to SW-NUEM_HUMAN Q16795 NADH-LUBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
12028	26217		2.42	6.0E-80	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12219	24679		5.78	6.0E-80	AB028900.1	NT	Homo sapiens GST gene for cerebroside sulfoltransferase, exon 1, 2, 3, 4, 5
12707	25341		1.94	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
12804	25051	30858	1.35	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13354	26583	0.74	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13586	26253	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
815	13586	26254	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1166	13920		2.39	5.0E-80	X91647.1	NT	H. sapiens next gene (exon 12)
1439	14186		2.26	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2361	15083	27821	1.99	5.0E-80	U89358.1	NT	Human I(3)mb1 protein homolog mRNA, complete cds
2431	15152	27886	1.65	5.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2787	15502	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3F-J) mRNA
4018	18764	29393	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4018	18764	29394	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4800	17627	30244	1.28	5.0E-80	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C058
8255	20949	34086	1.04	5.0E-80	9910233	NT	Mus musculus keratin complex 2, gene 8g (Krt2-8g), mRNA
9157	21888	35058	8.77	4.0E-80	F25915.1	EST_HUMAN	HSPD13155 HM3 Homo sapiens cDNA clone s4000045f03
211	13023		8.96	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4661	17365	30030	1.7	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4850	17580		3.77	3.0E-80	BE817465.1	EST_HUMAN	QV4-BN0263-040900-241-g10 BN0263 Homo sapiens cDNA
6730	18522	31443	2.68	3.0E-80	AJ091675.1	EST_HUMAN	cc23612.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1587064 3' similar to TR:O35790 O35790 PIG-L;
1780	14590	27238	5.08	2.0E-80	R35321.1	EST_HUMAN	yg55a08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
1853	14591	27307	1.19	2.0E-80	AI444821.1	EST_HUMAN	RET4B7 subcloned retina cDNA library Homo sapiens cDNA clone RET4B7
2049	14782	27609	5.82	2.0E-80	AL043116.2	EST_HUMAN	DKFZp434D1323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D1323 5'
6708	19823	32687	0.93	2.0E-80	AA582952.1	EST_HUMAN	nr80d01.s1 NCL_CGAP_C08 Homo sapiens cDNA clone IMAGE:1090177 3'
6813	19474	32496	1.71	2.0E-80	11421830	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7151	19838	32908	1.46	2.0E-80	T75215.1	EST_HUMAN	yc86f12.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to SP:K1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B;
9057	21746	34805	1.41	2.0E-80	AW964270.1	EST_HUMAN	EST376343 MAGE resequences, MAGE Homo sapiens cDNA
9668	22320	36516	1	2.0E-80	AJ007379.1	NT	Homo sapiens GGT gene, exon 6
10780	23463	36705	4.49	2.0E-80	AA393362.1	EST_HUMAN	z70f12.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G181315
331	13132		2.25	1.0E-80	AL163303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
782	13554	26215	1.37	1.0E-80	AF231920.1	NT	Homo sapiens chromosome 21 segment HS21C103
1947	14682		2.44	1.0E-80	AJ732656.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
5060	17779	30397	0.99	1.0E-80	4557610	NT	nm0112.x5 NCL_CGAP_C09 Homo sapiens cDNA clone IMAGE:1078495 3' similar to contains OFR.t1 OFR repetitive element;
5244	18060		6.43	1.0E-80	BE386615.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
5881	18667	31608	6.58	1.0E-80	L10347.1	NT	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3616433 5'
6406	19176	32174	1.36	1.0E-80	5174540	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7108	19794	32859	0.95	1.0E-80	AJ224172.1	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7472	20145	33237	2.53	1.0E-80	AJ948731.1	EST_HUMAN	Homo sapiens mRNA for lipophilin B
7472	20145	33238	2.53	1.0E-80	AI948731.1	EST_HUMAN	wq25c05.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472286 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33980	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21293	34435	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21293	34438	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9185	21855	35019	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9185	21855	35020	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10325	22972	36192	0.95	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36478	5.25	1.0E-80	11841276	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
10548	23244	36480	5.25	1.0E-80	11841276	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
12289	24719	31051	1.57	1.0E-80	11417801	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12498	24853	31034	3.08	1.0E-80	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
10583	23278	36515	1.46	8.0E-81	A1251752.1	EST_HUMAN	q180g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854296 3'
10583	23278	36516	1.46	8.0E-81	A1251752.1	EST_HUMAN	q180g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854296 3'
11052	23772	37046	8.46	8.0E-81	BE394525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
7162	19839	32808	3.58	7.0E-81	AB22115.1	EST_HUMAN	z991c08.x5 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:299918 3'
4354	17092	29726	5.26	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4354	17092	29727	5.26	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5201	18009	30630	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33253	0.97	6.0E-81	AF038680.1	NT	Homo sapiens chromosome 1p33-p34 beta-1, 4-galactosyltransferase mRNA, complete cds
9136	21824	34989	1.36	6.0E-81	AA360017.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' end
11800	24390	37723	1.61	6.0E-81	BE396092.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3669284 5'
12430	24803	31041	2.29	6.0E-81	BF679022.1	EST_HUMAN	602183666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12430	24803	31042	2.29	6.0E-81	BF679022.1	EST_HUMAN	602183666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2214	14942	27692	2.8	5.0E-81	BE269042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3349480 5'
8311	21005	34143	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8311	21005	34144	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9548	22201	35384	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11577	24176	37491	2.23	5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
11839	24423	37764	1.3	5.0E-81	11526341	NT	Homo sapiens ermadiello repeat gene deletes in velocardiofacial syndrome (ARVCF), mRNA
686	13461	26109	2.03	4.0E-81	A1521435.1	EST_HUMAN	th60e12.x1 NCI_CGAP_Cv23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
1815	14555	27270	1.31	4.0E-81	AW776912.1	EST_HUMAN	h98402.x1 NCI_CGAP_Cv14 Homo sapiens cDNA clone IMAGE:3036907 3' similar to SW:COPIG_BOVIN P53620 COATOMER GAMMA SUBUNIT ;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15931	28580	3.58	4.0E-81	AB037768.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds
3919	16372	29013	0.98	4.0E-81	AW004608.1	EST_HUMAN	ws00h03.x1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2605269 3' similar to TR:O43815 O43815 STRIATIN.;
4139	16881	29509	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4139	16881	29510	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17098	29733	1.33	4.0E-81	8923209	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19863	32934	1.11	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2), mRNA
7299	19882	33058	0.57	4.0E-81	11420544	NT	Homo sapiens eis variant gene 1 (ETV1), mRNA
8186	20379	34016	3.59	4.0E-81	X06089.1	NT	Human mRNA for amyloid A4(761) protein
8443	21135	34271	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9128	21814	34980	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22849	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10070	22718	35935	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	35936	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23807	37086	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11140	23807	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11828	25280	30731	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11928	25280	30732	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12463	24831	31031	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1244	13993	26658	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1244	13993	26659	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2371	15093	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A), complete cds
2889	15766	28400	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
2989	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
2937	15805	28254	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2937	15805	28255	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
3759	16507	29144	0.71	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2852384 3'
7857	20552	33678	0.6	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55686), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	26829	1.13	1.0E-81	W26539.1	EST_HUMAN	33f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
3644	16397	29037	1.07	1.0E-81	AW980888.1	EST_HUMAN	EST372729 MAGE resequences, MAGF Homo sapiens cDNA
4479	17214	29839	3.56	1.0E-81	AA040370.1	EST_HUMAN	z45h09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA
4600	17355	29964	6.99	1.0E-81	BE047896.1	EST_HUMAN	PIR:S52437 S52437 CDP-diacylglycerol synthase - fruit fly;
5167	17890	37785	4.69	1.0E-81	U87928.1	NT	z45c04.y1 NCI_CGAP_Bn52 Homo sapiens cDNA clone IMAGE:2291526 5'
5269	18075	30704	4.1	1.0E-81	11432968	NT	Human acylate hydratase (ACO2) gene, exon 3
5289	18075	30705	4.1	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30922	0.85	1.0E-81	AA255569.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5698	18365	31273	3.47	1.0E-81	U52351.1	NT	z85d06.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:882475 5' similar to SW:PRI2_HUMAN
5568	18365	31274	3.47	1.0E-81	U52351.1	NT	P49843 DNA PRIMASE 68 KD SUBUNIT ;
6054	18834	31798	1.81	1.0E-81	BF874641.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojargin (CTNND2) mRNA, partial cds
6453	19221	32219	0.59	1.0E-81	11420965	NT	Homo sapiens arm-repeat protein NPRAP/neurojargin (CTNND2) mRNA, partial cds
6453	19221	32219	0.59	1.0E-81	11420965	NT	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
6639	19401	32416	0.87	1.0E-81	AJ133289.1	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
7689	20333	33444	8.45	1.0E-81	11432968	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
9876	22328	35523	5.09	1.0E-81	BE969278.1	EST_HUMAN	Homo sapiens caudal-1/2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
9876	22328	35524	5.09	1.0E-81	BE958278.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
9889	22519	35715	5.06	1.0E-81	BE564367.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830228 5'
							601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10003	22651	35863	1.59	1.0E-81	AA630784.1	EST_HUMAN	act14d06.s1 Stratagene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:858427 3' similar to
10005	22653	35865	3.27	1.0E-81	BE744545.1	EST_HUMAN	SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
10005	22653	35866	3.27	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3830228 5'
10406	23081	36289	1.59	1.0E-81	AW897550.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830228 5'
10680	23540	36787	2.9	1.0E-81	8923698	NT	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
11028	23700	36966	1.97	1.0E-81	AW844986.1	EST_HUMAN	CM3-NN0059-140400-147-at12 NN0059 Homo sapiens cDNA
11028	23700	36967	1.97	1.0E-81	AW844986.1	EST_HUMAN	Homo sapiens golgin-like protein (GLP), mRNA
11240	16397	29037	1.72	1.0E-81	AW980888.1	EST_HUMAN	MRO-CT0008-250899-019 CT0008 Homo sapiens cDNA
11507	24108	37421	1.99	1.0E-81	BF204253.1	EST_HUMAN	MRO-CT0008-250899-019 CT0008 Homo sapiens cDNA
12132	24622	31083	4.13	1.0E-81	11418138	NT	EST372729 MAGE resequences, MAGF Homo sapiens cDNA
12	12838	25452	3.6	8.0E-82	AF161406.1	NT	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
							Homo sapiens phorbol (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
							Homo sapiens HSPC288 mRNA, partial cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12839	25452	2.45	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U09988.1	NT	Human CRFB4 gene, partial cds
785	13587	28227	2.83	8.0E-82	U09988.1	NT	Human CRFB4 gene, partial cds
867	13636	26306	0.84	8.0E-82	U09988.1	NT	Human CRFB4 gene, partial cds
1474	14221	28907	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	8715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16860	28586	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20481 (FLJ20481), mRNA
1433	14180		1.7	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862088 5'
2769	15474	28216	1.2	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
11759	24350	37682	1.71	7.0E-82	AA663747.1	EST_HUMAN	ae88a04.s1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:868342 3'
4104	16847	29473	0.71	5.0E-82	AA515512.1	EST_HUMAN	nt69e11.s1 NCI_CGAP_Cos3 Homo sapiens cDNA clone IMAGE:925186 3'
1666	14412	27103	49.82	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30915	0.8	4.0E-82	BF351681.1	EST_HUMAN	QV2-HT0540-120900-362408 HT0540 Homo sapiens cDNA
5409	18208	30916	0.8	4.0E-82	BF351681.1	EST_HUMAN	QV2-HT0540-120900-362408 HT0540 Homo sapiens cDNA
5871	18466	31381	0.65	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9
11718	24310	37633	11.61	4.0E-82	AI937300.1	EST_HUMAN	wp75a09.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O75276 PKD1 ; Homo sapiens presenilin-1 gene, exons 1 and 2
271	13079	26721	21.65	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
687	13482	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-402 BN0120 Homo sapiens cDNA
770	13542	26203	5.7	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
850	13620	26280	10.65	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1039	13799		18.58	3.0E-82	AA725848.1	EST_HUMAN	ai23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
1333	14082	28758	1.25	3.0E-82	AV875073.1	EST_HUMAN	RC6-PT0001-160100-021-B02 P.T0001 Homo sapiens cDNA
1460	14197	28881	3.44	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21 C085
1894	14631	27341	1.91	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
2000	14735	27459	1.53	3.0E-82	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
3268	16028		2.52	3.0E-82	5453811	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4864	17593	30216	0.98	3.0E-82	AA135979.1	EST_HUMAN	zn93b04.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565711 5' similar to SW:PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE ;
8052	20746	33878	3.14	3.0E-82	11425206	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8454	21146	34287	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
8454	21146	34288	0.98	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
9724	22375	35575	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
9724	22375	35576	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
583	13363	25990	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
583	13363	25991	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1681	14425	27121	1.21	2.0E-82	AL046390.1	EST_HUMAN	DKFZp434M117_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M117 6'
3827	16578	29210	1.25	2.0E-82	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4208	16949	29575	1.17	2.0E-82	4504118	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	29880	1.01	2.0E-82	AB028019.1	NT	Homo sapiens mRNA for KIAA1088 protein, partial cds
4521	17256	29881	1.01	2.0E-82	AB028019.1	NT	Homo sapiens mRNA for KIAA1088 protein, partial cds
4816	17547	30172	2.85	2.0E-82	AF045555.1	NT	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30352	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5021	17742	30353	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6082	18881	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens FAM44A1 splice variant a (FAM44A1) mRNA, complete cds
7681	25426		0.91	2.0E-82	AI476428.1	EST_HUMAN	hm21g05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
7705	20369	33482	0.85	2.0E-82	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8204	20898	34035	2.16	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8568	21260	34397	0.45	2.0E-82	7657340	NT	Homo sapiens microrachidia (mouse) homolog (MORC), mRNA
8568	21260	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microrachidia (mouse) homolog (MORC), mRNA
10009	22857	35870	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10009	22857	35871	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11237	23900	37188	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11750	24341	37670	1.91	2.0E-82	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11957	24508		1.58	2.0E-82	N94950.1	EST_HUMAN	zb31d10.s1 Scores_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12485	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
12775	26029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
578	13358	25985	1.14	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1188	13938		0.77	1.0E-82	BE885106.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26579	3.1	1.0E-82	BE084386.1	EST_HUMAN	RC4-BT0310-110300-016-110 BT0310 Homo sapiens cDNA
1284	14013	26880	1.26	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8841	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA0562 protein, partial cds
9553	22208	36390	0.59	1.0E-82	AB014562.1	NT	UIH-BW 1-aps-f-03-q-UJ.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10145	22783		1.17	1.0E-82	BF515938.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C009
10846	23337	36576	2.34	1.0E-82	AL163209.2	NT	602160403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291661 5'
8615	21307	34449	4.51	9.0E-83	BF672220.1	EST_HUMAN	601117160F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
10174	22822	36039	0.53	9.0E-83	BE253347.1	EST_HUMAN	601279346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1392	14139	28816	3.33	8.0E-83	BE388973.1	EST_HUMAN	z48f12.s1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:285823 3'
1676	15623	27115	5.63	8.0E-83	N66951.1	EST_HUMAN	QV4-LT0016-271299-088-111 LT0016 Homo sapiens cDNA
1335	14084	26759	0.97	7.0E-83	AW385629.1	EST_HUMAN	no12h01.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element;
2868	15635		1.88	7.0E-83	AA684655.1	EST_HUMAN	7p37a07.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TRQ9Y316 Q9Y316
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	DJ207H1.1;
5960	18742	31702	0.58	7.0E-83	11428857	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
11717	24311	37634	1.4	7.0E-83	5729763	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
11717	24311	37635	1.4	7.0E-83	5729763	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
394	13179	25826	1.88	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-28
1779	14520	27224	1.5	6.0E-83	AW573088.1	EST_HUMAN	hf31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833525 3' similar to
3017	15783	28432	0.71	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN H10034.;
3046	16812		1.08	6.0E-83	AF231618.1	NT	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
						NT	Homo sapiens chromosome 21 unknown mRNA
						NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5211	18019	30641	2.02	6.0E-83	4507866	NT	Homo sapiens hypon gene, exons 1-50
5933	18716	31674	1.52	6.0E-83	AJ010770.1	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
7401	20079	33160	2.27	6.0E-83	11422024	NT	Homo sapiens myomesin (M-protein) 2 (16kD) (MYOM2), mRNA
9575	22228	35413	2.85	6.0E-83	4505314	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9669	22321	35517	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9689	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11517	24117		2.53	6.0E-83	AA486105.1	EST_HUMAN	ab14610.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.12 THR repetitive element;
11908	24472		4.27	6.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13692		2.03	6.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15528		1.55	5.0E-83	AF008305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3829	16382	29022	1.18	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3886	16636	29276	0.77	6.0E-83	4985190	NT	Homo sapiens deoxyribonuclease I (DNASE1), mRNA
5020	17741	30350	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5083	17812	30428	1.07	6.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discordin-like domains 3 (EDIL3), mRNA
5093	17812	30429	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discordin-like domains 3 (EDIL3), mRNA
625	13404	26039	1.72	4.0E-83	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA368311.1	EST_HUMAN	EST179542 Placenta I Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9
2780	15485		1.33	3.0E-83	AA632654.1	EST_HUMAN	np87c07.s1 NCJ CGAP_Thy1 Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9 repetitive element;
6483	19250		0.82	3.0E-83	AI217223.1	EST_HUMAN	q173e08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682.3
1792	14532	27240	1.86	2.0E-83	AA993492.1	EST_HUMAN	o184g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592.3 similar to TR:Q92814
1792	14532	27241	1.86	2.0E-83	AA993492.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216.;
1918	14655	27395	4.07	2.0E-83	N66951.1	EST_HUMAN	Q92614 MYELOBLAST KIAA0216.;
2856	15624	28268	1.1	2.0E-83	BE828694.1	EST_HUMAN	z948f12.s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:285823.3
3263	16025		1.89	2.0E-83	11430834	NT	RC8-ET0046-280500-013-H12 ET0046 Homo sapiens cDNA
3758	16508		0.7	2.0E-83	AL163202.2	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
4302	17041	28668	4.11	2.0E-83	AF202879.1	NT	Homo sapiens chromosome 21 segment HS21C002
4804	17339	29968	6.14	2.0E-83	7706398	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4804	17339	29969	6.14	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51876), mRNA
5189	17997	30620	0.9	2.0E-83	U06679.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51876), mRNA
5755	18547	31468	0.85	2.0E-83	11428081	NT	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
6876	18662	31803	1.31	2.0E-83	BE885401.1	EST_HUMAN	Homo sapiens membrane protein CH1 (CH1), mRNA
6947	19408	32423	1.12	2.0E-83	AF129533.1	NT	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068.5
7335	20017	33095	6.36	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds

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7704	20387	33480	0.64	2.0E-83	BF105097.1	EST_HUMAN	601822030F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33580	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7742	20438	33581	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7886	20581	33710	1.79	2.0E-83	U66707.1	NT	Rattus norvegicus denah-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	35328	0.48	2.0E-83	5453381	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9494	22147	35329	0.48	2.0E-83	5453381	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9934	22582	35780	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
9934	22582	35781	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10016	22694	35881	1.39	2.0E-83	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10089	22737	35952	0.77	2.0E-83	AW505600.1	EST_HUMAN	U1-HF-BNO-emb-h-07-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
10763	23438	36682	6.64	2.0E-83	11438448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547J135 5'
10845	23527	36771	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547J135 5'
12522	24869		3.85	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1390	14137	28813	2.18	1.0E-83	4504328	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1390	14137	28814	2.18	1.0E-83	4504328	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	28873	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1442	14189	28874	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3178	15942	28593	1.18	1.0E-83	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3850	16800	28237	3.93	1.0E-83	AF053768.1	NT	Rattus norvegicus brain specific contactin-binding protein CBP80 mRNA, partial cds
4220	16981	29586	1.98	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isomerase, exon 3
4891	17562	30184	3.36	1.0E-83	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6598	19359	32373	1.65	1.0E-83	A027614.1	EST_HUMAN	ov95b08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM
3776	16528	29167	3.8	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1272	14021	26687	3.5	6.0E-84	BE838864.1	EST_HUMAN	601676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5'
1272	14021	26688	3.5	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2396	15117	27854	8.26	6.0E-84	AA776574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5160	17892		3.33	6.0E-84	AL042863.2	EST_HUMAN	ae89a03.s1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
							DKFZp434H0322_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H0322 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30943	1.87	6.0E-84	AA897339.1	EST_HUMAN	el47g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor, SREC-scavenger receptor expressed by endothelial cells (SREC), mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor, SREC-scavenger receptor expressed by endothelial cells (SREC), mRNA
7373	20053	33134	2.94	6.0E-84	BE810371.1	EST_HUMAN	PMO-L1T0019-190600-004-F02.L1T0019 Homo sapiens cDNA
7591	20259	33367	0.97	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP18) mRNA, complete cds
7972	20687	33789	2.37	6.0E-84	BE770199.1	EST_HUMAN	PM4-F10054-160600-004-e10.F10054 Homo sapiens cDNA
697	13472	26121	0.71	5.0E-84	AA382811.1	EST_HUMAN	EST96094 Testis I Homo sapiens cDNA 5' end
3013	15779		1.82	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6015	18798	31758	0.59	5.0E-84	AA167678.1	EST_HUMAN	z39e07.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q. ;
11533	24133	37438	3.17	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11652	24249	37570	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24249	37571	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11813	24401	37738	1.44	5.0E-84	11433550	NT	Homo sapiens tropomodulin 2 (neuronal) (TMOD2), mRNA
1389	14136	28812	2.19	4.0E-84	AI686321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302088 3' similar to SW:NRDC_HUMAN O43847 NARDILYSIN PRECURSOR ;
4897	17624	30242	1.79	4.0E-84	AF099601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31168	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	18952	31828	1.88	4.0E-84	AF099650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421326	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
8809	21601	34647	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8809	21601	34648	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
10835	23517	36759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	25752	1.24	3.0E-84	AF026200.1	NT	Homo sapiens Becl1 protein homolog mRNA, partial cds
1953	14888	27401	1.15	3.0E-84	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL098880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	16333	28977	1.07	3.0E-84	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	19483	29121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLR51) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	23473		3.55	3.0E-84	AI983801.1	EST_HUMAN	wu20405.x1 Soares_Dickgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gbl.L05093 60S RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27563	5.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2098	14829	27564	6.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2944	15710	28362	9.31	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
2982	15728	28378	0.77	2.0E-84	X89211.1	NT	H sapiens DNA for endogenous retroviral like element
6439	18238	30952	0.92	2.0E-84	BF511575.1	EST_HUMAN	UI-H-BI4-act-a-02-0-UI.s1 NC1_CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
5439	18238	30953	0.92	2.0E-84	BF511575.1	EST_HUMAN	UI-H-BI4-act-a-02-0-UI.s1 NC1_CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6540	18305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	ys6e11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:209324 3'
7956	20651		1.35	2.0E-84	AI298674.1	EST_HUMAN	qm87c09.x1 NC1_CGAP Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'
8284	20978	34119	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8284	20978	34119	0.48	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9245	21824	35094	0.81	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
9631	22283	35476	0.61	2.0E-84	H22841.1	EST_HUMAN	ym49e11.1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT P26844 BETA-2-GLYCOPROTEIN I;
12169	24643	31100	3	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupskl_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
12169	24643	31101	3	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupskl_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
304	13108	25748	1.89	1.0E-84	AF114488.1	NT	Homo sapiens interecitin short isoform (ITSN) mRNA, complete cds
536	13319	25953	20.64	1.0E-84	4507952	NT	Homo sapiens tyrosine 3-monoxygenase/tyrosinase 3-monoxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
703	13478		1	1.0E-84	11427631	NT	Homo sapiens complement component 5 (C5), mRNA
1270	14019	26685	3.17	1.0E-84	AA894379.1	EST_HUMAN	an85b11.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
2048	14781	27508	1.92	1.0E-84	BE392137.1	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626257 5'
2220	14948	27686	1.13	1.0E-84	11427167	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
3793	16488	29123	2.46	1.0E-84	AA720851.1	EST_HUMAN	rw12e06.s1 NC1_CGAP_S51 Homo sapiens cDNA clone IMAGE:1239106 3'
4393	17120	29752	5.01	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4651	17385	30017	3.53	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
4651	17385	30018	3.53	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
4855	17120	29752	2.67	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5153	17870	30483	1.15	1.0E-84	7656998	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
5830	18619	31551	0.98	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6097	18875	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel=28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6781	19525	32552	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19699	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.28	1.0E-84	8353994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7501	20137	33229	2.42	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
9435	22113		3.05	1.0E-84	5031894	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
9670	22322	35519	0.53	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9690	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9890	17900	30589	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10496	23142	36368	1.08	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4), mRNA
12046	24566		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
12161	24638	31096	3.2	1.0E-84	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
946	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1051	13810	26469	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1051	13810	26470	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1360	14108	28783	0.95	9.0E-85	4758669	NT	Homo sapiens leupaxin (LDPL), mRNA
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1672	14319	27005	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1670	14415	27108	3.6	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4225	16966	26591	0.96	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4824	17555	30177	0.96	9.0E-85	5901978	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
4856	17555	30208	1.12	9.0E-85	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
1114	13871	26530	1.45	7.0E-85	LD5084.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11642	24239		4.32	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11392	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11766	24357	37690	1.29	6.0E-85	AA03053.1	EST_HUMAN	z62b01.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
2332	15056	27792	1.49	5.0E-85	AL163284.2	NT	G1335769 GAG-POL POLYPEPTIDE. ; Homo sapiens chromosome 21 segment HS21C084

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4399	17139		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA11) mRNA, complete cds
5394	18166	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862402 5'
5394	18166	30852	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862402 5'
11063	23733	37005	2	5.0E-85	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17136		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA11) mRNA, complete cds
6056	18836	31787	1.51	4.0E-85	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6056	18836	31788	1.51	4.0E-85	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
10472	23118		1.3	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14026	26694	2.88	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14516	27216	3.51	3.0E-85	T07495.1	EST_HUMAN	ye53g09.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	28646	6.53	3.0E-85	BE267189.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11436001	NT	Homo sapiens leucine rich protein (LPRP), mRNA
5994	18775	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6043	18823	31783	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6043	18823	31784	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6853	18553		7.79	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH8 gene)
7295	18978	33055	0.91	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
7771	20467	33591	1.89	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8406	21099	34235	0.74	3.0E-85	11525829	NT	Homo sapiens C31-81 protein (LOC51108), mRNA
8877	21568	34712	3.8	3.0E-85	11430989	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9208	22085	35257	0.98	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRNPB2), mRNA
9208	22085	35258	0.98	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRNPB2), mRNA
10381	23027	36242	0.66	3.0E-85	AF098842.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
10790	23418	36659	1.88	3.0E-85	BE150392.1	EST_HUMAN	RC1-HT0268-031299-012-009 HT0268 Homo sapiens cDNA
11490	24091	37403	2.25	3.0E-85	5031860	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
11824	24408	37742	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12640	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1017	13777	26438	2.34	2.0E-85	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1393	14130	26903	0.97	2.0E-85	7706205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1399	14146	26824	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1399	14146	26825	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2226	14954	27692	1.53	2.0E-85	U10528.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2828	14063		5.28	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	16788	28435	1.18	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4300	17039	28686	4.51	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4827	17262	29806	1.22	2.0E-85	4826977	NT	Homo sapiens reelin (RELN) mRNA
4854	17594	30207	0.97	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9173	21843	35009	3.18	2.0E-85	A1760820.1	EST_HUMAN	w18708.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element
9549	22202	35385	1.08	2.0E-85	A1914459.1	EST_HUMAN	MSR1 repetitive element 1
10162	22810	36029	1.32	2.0E-85	A1888384.1	EST_HUMAN	w149d03.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2331481 3'
2285	15010		2.86	1.0E-85	BE794306.1	EST_HUMAN	wm94d12.x1 NCL_CGAP_U2 Homo sapiens cDNA clone IMAGE:2443607 3'
2392	15113	27850	8.42	1.0E-85	BE618392.1	EST_HUMAN	6011691410F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2392	15113	27851	8.42	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
9981	22333	35528	4.38	1.0E-85	BE257917.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
10842	23524	36766	2.77	1.0E-85	AA778785.1	EST_HUMAN	601109739F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350553 5'
10842	23524	36767	2.77	1.0E-85	AA778785.1	EST_HUMAN	245103.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23999	36847	1.73	1.0E-85	BF311552.1	EST_HUMAN	245103.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23999	36848	1.73	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5'
10997	23670	36927	1.28	1.0E-85	Y00052.1	NT	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5'
11773	24364	37696	2.41	1.0E-85	A198420.1	EST_HUMAN	Human mRNA for T-cell cyclophilin
12050	24722	31053	4.4	1.0E-85	11417862	NT	q158a07.x1 NCL_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:1860468 3'
12295	24722	31053	4.74	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14158		11.19	9.0E-86	BE274217.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11898	24293	37618	1.57	8.0E-86	4503224	NT	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987690 5'
916	13683	26345	2.34	7.0E-86	AA960801.1	EST_HUMAN	Homo sapiens cytochrome P450, subfamily 1F, polypeptide 1 (CYP2F1) mRNA
916	13683	26346	2.34	7.0E-86	AA960801.1	EST_HUMAN	q188108.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31848	1.02	7.0E-86	9966886	NT	q188108.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31849	1.02	7.0E-86	9966886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6880	17958	30553	6.65	7.0E-86	11421737	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
8643	21335	34478	3.06	7.0E-86	L38551.1	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
							Homo sapiens galactose oxidase (GALC) gene, exon 15

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9599	22262		1.39	7.0E-86	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9598	22310	35508	2.27	7.0E-86	11526307	NT	Homo sapiens DGeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	36809	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CAT50 (H. sapiens) (LOC63170), mRNA
10882	23562	36810	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CAT50 (H. sapiens) (LOC63170), mRNA
1271	14020	26686	2.88	6.0E-86	4505492	NT	Homo sapiens oxoglutarate dehydrogenase (lipoamide) (OGDH), mRNA
5105	17823	30440	2.64	6.0E-86	Y16139.1	NT	Homo sapiens enteropeptidase gene, exons 20 and 21
5107	17825	30442	1.07	6.0E-86	6005833	NT	Homo sapiens 24 kDa intrinsc membrane protein (PMP24), mRNA
206	13018	26690	4.98	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5944	18728	31684	12.1	4.0E-86	BE285843.1	EST_HUMAN	601176885F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531933 5'
11205	13018	25660	2.18	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5509	18307	31208	6.97	3.0E-86	AW340946.1	EST_HUMAN	x282h12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8160	20854	33885	1.03	3.0E-86	AV722329.1	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBDS04 5'
10120	22768	35930	3.37	3.0E-86	BE868479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35981	3.37	3.0E-86	BE868479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	36408	5.14	3.0E-86	AI659240.1	EST_HUMAN	tu18b02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.6	3.0E-86	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
260	13068	26708	2.02	2.0E-86	AA308284.1	EST_HUMAN	EST177232 Jurkat T-cells VI Homo sapiens cDNA 5' end
405	13190		2.59	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1168	13922	26584	3.21	2.0E-86	N58977.1	EST_HUMAN	yz18a08.r1 Scarses, multiple, sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	28910	1.93	2.0E-86	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
1478	14225	28911	1.93	2.0E-86	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
2188	14917	27651	5.09	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2266	14992	27732	1.55	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	16168	28817	1.3	2.0E-86	AW968142.1	EST_HUMAN	EST378215 IMAGE resequencing, MAGI Homo sapiens cDNA
3729	16481	29118	3.54	2.0E-86	AF159776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3729	16481	29119	3.54	2.0E-86	AF159776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4019	16765		2.84	2.0E-86	AW515742.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2916642 3'
4737	17469	30108	3.26	2.0E-86	AF059490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5782	18573	31501	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
						NT	Homo sapiens similar to ecdysteroic acid pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
6974	26098	32476	0.69	2.0E-86	11419429	NT	Human Chedlak-Higaashi syndrome protein short isoform (LYST) mRNA, complete cds
7908	20603	33733	0.69	2.0E-86	U94744.1	NT	Homo sapiens chromosome 21 segment HS21C027
8414	21107		0.47	2.0E-86	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21184	34307	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21184	34308	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21493	34940	0.65	2.0E-86	10863878	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9218	21887	35067	1.95	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog-like) (CSE1L), mRNA
10345	22892	39210	2.91	2.0E-86	11545946	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22892	39211	2.91	2.0E-86	11545946	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23046	38282	1.15	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10820	23503	38742	2.64	2.0E-86	4759051	NT	Homo sapiens ribosomal protein S8 kinase, 80kD, polypeptide 6 (RPS6KA6) mRNA
12458	24827	31027	3.07	2.0E-86	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12621	24926		4.26	2.0E-86	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14338	27027	2.28	1.0E-86	4826855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
3160	15923	28569	1.5	1.0E-86	5453849	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3229	15992	28645	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3290	16051	28699	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3290	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3926	16876	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3926	16876	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29599	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
5495	18284	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11606	18284	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5272	18078		1.81	9.0E-87	AI160703.1	EST_HUMAN	q577c09.x1 Soares, fetal heart, NbrH19W Homo sapiens cDNA clone IMAGE:1708128 3' similar to SW:K1CJ_MOUSE P02536 KERATIN, TYPE I CYTOSKELETAL 10 ;
7348	20029	33105	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7348	20029	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
487	13252	25893	15.93	8.0E-87	X62245.1	NT	O.cuniculus mRNA for elongation factor 1 alpha
2294	15019	27755	1.78	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.x1 NCI CGAP Co18 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.78	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.x1 NCI CGAP Co18 Homo sapiens cDNA clone IMAGE:3322779 3'
6307	19079	32064	0.57	7.0E-87	AW590336.1	EST_HUMAN	MRO-NT0039-020500-004-rt11 NT0039 Homo sapiens cDNA
8089	20783	33913	3.4	7.0E-87	BF352776.1	EST_HUMAN	IL3-HT0618-060700-198-D10 HT0619 Homo sapiens cDNA
8354	20425	33544	1.15	7.0E-87	BE712981.1	EST_HUMAN	IL5-HT0702-160600-103-406 HT0702 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	36822	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
9971	22619	36823	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10366	25128		0.51	7.0E-87	A081565.1	EST_HUMAN	ox59h01.s1 Soares_NHIMPu_ST Homo sapiens cDNA clone IMAGE:1660657 3'
10806	23489	36724	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
10806	23489	36725	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
3517	16273	28927	0.99	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5128	17846	30463	0.69	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6327	18097	32085	2.02	6.0E-87	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC683102), mRNA
1135	13891	26551	1.42	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis Homo sapiens cDNA 5' end
12297	13891	26551	1.56	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis Homo sapiens cDNA 5' end
946	13711	26376	1.51	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13904	26566	13.58	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14759	27488	1.53	4.0E-87	AB070925.1	NT	Homo sapiens mRNA for KIAA0459 protein, partial cds
2421	15142	27874	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
2421	15142	27875	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
			1.8	4.0E-87	6174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q23) translocation), translocated to, 4
3457	18213	28866	1.8	4.0E-87	6174574	NT	(MLLT4) mRNA
5360	18162	30846	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)
			4.53	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
5954	18736	31695	0.72	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
7670	20334	33445	3.44	4.0E-87	M06076.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
11118	23788	37065	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12398	25266	30721	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12398	25266	30722	1.5	4.0E-87	11417862	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
12841	24881		2.25	4.0E-87	11417812	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
2779	15484	28223	2.77	2.0E-87	485420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3764	18516	29154	0.83	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4857	17586	30209	1.28	2.0E-87	BF376311.1	EST_HUMAN	GM0-TN0038-150900-552-h08 TN0038 Homo sapiens cDNA
4907	17634	30249	1.47	2.0E-87	BE175478.1	EST_HUMAN	RC9-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	RC9-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
6234	18008		9.81	2.0E-87	BE567183.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
							601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6599	18362	32376	0.69	2.0E-87	N48128.1	EST_HUMAN	y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
6683	18600	32638	0.81	2.0E-87	AY554143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDSG04 3'
7073	19764	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7128	19814	32882	0.94	2.0E-87	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7363	20034	33112	39.61	2.0E-87	N48128.1	EST_HUMAN	y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
7587	20295	33362	35.45	2.0E-87	N48128.1	EST_HUMAN	y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
8204	20988	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9885	22337		5.72	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'
1159	15521		2.09	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1411	14158	26840	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
1411	14158	26841	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
3997	16451	29090	6.23	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3717	18470	29108	2.43	1.0E-87	4758827	NT	Homo sapiens neuroxin III (NFXN3) mRNA
5086	17814	30431	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
5085	17814	30432	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
5149	12933	25570	1.04	1.0E-87	AI004091.1	EST_HUMAN	cl50d04.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3'
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6132	18910	31879	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotrophin-releasing factor type 1 receptor gene, exon 8
7077	19768	32833	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotrophin-releasing factor type 1 receptor gene, exon 8
7083	19773	32838	1.18	1.0E-87	4508786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
7288	19881	33057	1.23	1.0E-87	11431690	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
8015	20710	33840	12.93	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8807	21499	34844	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
8807	21499	34845	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9533	22186	35371	2.85	1.0E-87	BE818183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9533	22186	35372	2.85	1.0E-87	BE818183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10272	22920	36131	0.87	1.0E-87	M34428.1	NT	Human L-plastin mRNA, 5' end
10633	23326	36562	1.55	1.0E-87	5729967	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
10921	23601		1.92	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10965	23641	36893	1.88	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discordin Like domains 3 (EDIL3), mRNA
10985	23641	36894	1.88	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discordin Like domains 3 (EDIL3), mRNA
12993	26404		3.54	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
12809	26240		3.94	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1084	13842	26500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	26750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	26751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2115	14846	27575	1.67	9.0E-88	7661701	NT	Homo sapiens DKFZP686P1522 protein (DKFZP686P1522), mRNA
3617	16370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16977	29602	2.73	9.0E-88	X91929.1	NT	H. sapiens EOE-1 gene (exon 9)
4236	16977	29603	2.73	9.0E-88	X91929.1	NT	H. sapiens EOE-1 gene (exon 9)
4943	17670	30279	1.05	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8919	21610	34754	3.82	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2845	15355	28100	3.76	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3000	15768	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	AI693217.1	EST_HUMAN	wd68h08.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element; contains element MER22 MER22 repetitive element;
4887	17421	30056	0.83	6.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
6672	19569	32625	3.19	5.0E-88	H10932.1	EST_HUMAN	ym06b10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:4295775 5'
7630	20525	33650	1.8	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
8211	21890	35057	0.45	5.0E-88	BF680206.1	EST_HUMAN	602154959F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4295775 5'
1308	14055	26729	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1308	14055	26730	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
7143	18630	32899	1.43	4.0E-88	11416885	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
10827	23509	36749	1.8	4.0E-88	4502684	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37380	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11471	24072	37381	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	13489	26140	1.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1806	14545		1.98	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2948	15714	29367	4.11	3.0E-88	N66951.1	EST_HUMAN	z48f12.e1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:295823 3'
4216	16957	29579	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4216	16957	29580	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.08	3.0E-88	11428300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5216	18024	30648	2.85	3.0E-88	11429567	NT	Homo sapiens calyculin-containing protein (VCP), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5498	18298	31194	4.13	3.0E-88	9966888	NT	Homo sapiens polyomavirus rubra vera 1; cell surface receptor (PRV1), mRNA
5618	18414	31327	3.58	3.0E-88	11420697	NT	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18848	31812	0.61	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32076	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6865	19447	32465	14.59	3.0E-88	AF279265.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7440	20117	33208	6.15	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7821	20516	33642	9.88	3.0E-88	11421728	NT	Homo sapiens growth differentiation factor 6 (cartilage-derived morphogenetic protein-1) (GDF6), mRNA
8096	20790	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis protein C mRNA, complete cds
8334	20405	33521	1.99	3.0E-88	11526282	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
8928	22479	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
12139	24828	28432	5.97	3.0E-88	11417974	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
1013	13773	28432	3.32	2.0E-88	7305198	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1620	14367	27056	1.38	2.0E-88	AF246219.1	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1744	14486	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3458	16214	28867	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4391	17128	29760	2.13	2.0E-88	5031666	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5821	18610	31539	5.63	1.0E-88	AW139665.1	EST_HUMAN	Homo sapiens KIAA0417 mRNA, complete cds
5821	18810	31540	5.63	1.0E-88	AW139665.1	EST_HUMAN	Homo sapiens KIAA0417 mRNA, complete cds
6548	18313	32317	23.81	1.0E-88	AB007877.1	NT	U1-H-B11-aaa-d-04-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6548	18313	32318	23.81	1.0E-88	AB007877.1	NT	U1-H-B11-aaa-d-04-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
7022	19714	32771	1.4	1.0E-88	AF69034.1	EST_HUMAN	Homo sapiens KIAA0417 mRNA, complete cds
7084	19774	32839	4.42	1.0E-88	AA488981.1	EST_HUMAN	U1-H-B11-aaa-d-04-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2476608 3'
9141	21872	35037	0.6	1.0E-88	AA190368.1	EST_HUMAN	aa54a11.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:B0272.2 CE00851;
9478	22131	35311	2.97	1.0E-88	AL043314.2	EST_HUMAN	zp87c02.1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:621710 5' similar to SW:POL1_HUMAN P10268 RETROVIRUS-RELATED POL POLYPROTEIN;
11422	23189	36420	2.99	1.0E-88	AA991479.1	EST_HUMAN	DKFZp434N0323.J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
12356	24760		3	1.0E-88	AL163246.2	NT	os91g03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1812766 3' similar to gb:M16342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
							Homo sapiens chromosome 21 segment HS21C046

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
8833	19495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC88232), mRNA
424	13210	26856	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	26857	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557380	NT	Homo sapiens complement component 8, beta polypeptide (C8B) mRNA
4878	17605	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E246 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6250	19024	31997	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
6250	19024	31998	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
7398	20076	33156	2.06	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
7778	20474	33598	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7778	20474	33599	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9594	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23076	36296	1.11	7.0E-89	X82048.1	NT	H. sapiens Wee1 hu gene
10429	23075	36297	1.11	7.0E-89	X82048.1	NT	H. sapiens Wee1 hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23867	37154	1.45	7.0E-89	M59783.1	NT	Human aldose reductase (AR) gene, segment 2
12774	25028		1.7	7.0E-89	U87927.1	NT	Human eonilata hydratase (ACO2) gene, exon 2
1002	13782	26423	0.73	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2210	14938	27676	1.27	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2434	15155	27888	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2434	15155	27889	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
3515	16271	28925	0.88	6.0E-89	7661817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	29954	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
4593	17328	29955	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
5100	17819	30436	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia BAYlor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia BAYlor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7487	20169	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.58	4.0E-89	AI798672.1	EST_HUMAN	w091c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2879	15646	28289	1.51	3.0E-89	AW976181.1	EST_HUMAN	EST388290 MAGE resequences, MAGN Homo sapiens cDNA
7040	19731	32780	1.26	3.0E-89	AI217559.1	EST_HUMAN	qh17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36574	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10702	23393	36530	2.34	3.0E-89	N57357.1	EST_HUMAN	yw86e11.r1 Soares_placenta_8to9weeks_2Nblp88e9w Homo sapiens cDNA clone IMAGE:259148 5'
123	13184	25832	0.87	2.0E-89	7706870	NT	similar to SW:P14K_HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA ;
123	13184	25833	0.87	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25832	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25833	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
517	13301	25933	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2883	16650	28293	1.53	2.0E-89	AJ22095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131
3540	16286	28948	1.01	2.0E-89	AA759149.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
3540	16286	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4125	16867	29494	1.26	2.0E-89	AF089897.1	NT	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4133	16875	29504	5.16	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4133	16875	29505	5.16	2.0E-89	X58742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4316	17054	29679	0.75	2.0E-89	AL163203.2	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4463	17189	29826	1.1	2.0E-89	AJ007378.1	NT	H. sapiens chromosome 21 segment HS21C003
5269	18065	30886	0.66	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5393	18193	31048	2.8	2.0E-89	AB007548.1	NT	Homo sapiens GGT gene, exon 5
5702	18498	31418	1.81	2.0E-89	U03985.1	NT	601065986F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
6116	18894	31861	0.63	2.0E-89	AL163285.2	NT	Homo sapiens gene for LECT2, complete cds
7567	20237	33341	5.33	2.0E-89	U81004.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7835	20530	33657	3.07	2.0E-89	11428801	NT	Homo sapiens chromosome 21 segment HS21C085
8316	21009	34146	1.02	2.0E-89	AJ245503.1	NT	Human GT24 (GT24) mRNA, partial cds
9152	21893	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
9710	22361	35557	0.68	2.0E-89	AF170814.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9710	22361	35558	0.68	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35557	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5
9710	22361	35558	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11346	24036	37339	2.83	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23216	36447	2.3	2.0E-89	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-89	114333973	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10692.1	NT	Human Mage-7 antigen (MAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	Human Mage-7 antigen (MAGE7) pseudogene, complete cds
11570	24169	37484	5.97	1.0E-89	BF196052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
8126	20820	33956	1.57	9.0E-90	AL163246.2	NT	h81d09.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O64778 O64778
8126	20820	33957	1.57	9.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
1041	13801	28459	2.23	8.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
1042	13801	28459	2.9	8.0E-90	AL163246.2	NT	h81d09.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O64778 O64778
1307	15665	26731	3.78	8.0E-90	BE670561.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
1307	15665	26732	3.78	8.0E-90	BE670561.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
8458	21150	34293	0.55	8.0E-90	BE177830.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10599	23293	36531	1.52	8.0E-90	A1222095.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10599	23293	36532	1.52	8.0E-90	A1222095.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10963	23639	36889	1.32	8.0E-90	AA705222.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10963	23639	36890	1.32	8.0E-90	AA705222.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
816	13587		4.12	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8323	21016		2.08	7.0E-90	AA782977.1	EST_HUMAN	alpha3d08.s1 Soares testis_NHT Homo sapiens cDNA clone 1375503 3'
8865	21556	34701	1.62	7.0E-90	BE962625.2	EST_HUMAN	alpha3d08.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:3855824 3'
8865	21556	34702	1.62	7.0E-90	BE962625.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
10036	22684	35901	1.9	7.0E-90	H68849.1	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:212190 3' similar to
10036	22684	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;
10036	22684	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10352	22899	36216	1.17	7.0E-90	BF526089.1	EST_HUMAN	602071208F1 NCJ CGAP Brn64 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	18942	28568	9.12	6.0E-90	89222398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4201	18942	28569	9.12	6.0E-90	89222398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5894	18679	31625	3.27	6.0E-90	U77700.1	NT	Homo sapiens HSGCN1 mRNA, partial cds
5894	18679	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HSGCN1 mRNA, partial cds
8225	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
8225	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
151	12866		19.84	5.0E-90	AB035344.1	NT	Homo sapiens TCE6 gene, exon 1-10b
1170	13924	26586	3.08	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27267	1.47	5.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares NFL_T GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
1813	14553	27268	1.47	5.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares NFL_T GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
2660	15274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
4803	17238	29871	2.05	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4822	17357	29892	0.98	5.0E-90	AL135549.1	EST_HUMAN	DKFZ762P1616_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZ762P1616 5'
5504	18302	31203	2.94	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5608	18402	31316	1.31	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5679	18302	31203	2.36	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6631	19393	32407	0.74	5.0E-90	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
6631	19393	32408	0.74	5.0E-90	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
7114	19802	32866	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	19802	32867	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7463	20136	33228	9.01	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
7790	20485	33609	0.44	5.0E-90	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
8192	20866	34025	5.08	5.0E-90	11346483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
8096	21784	34950	0.56	5.0E-90	4828670	NT	Homo sapiens cadherin 18 (CDH18) mRNA
9579	22232	35416	1.06	5.0E-90	11419429	NT	Homo sapiens similar to eotonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10181	22826	36044	0.56	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10312	22859	36175	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10312	22859	36176	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22991	36209	9.16	5.0E-80	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36284	0.54	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36285	0.54	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37648	2.41	5.0E-80	7662047	NT	Homo sapiens KIAA0305 gene product (KIAA0305), mRNA
12591	24948		2.08	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12641	24938		4.43	5.0E-90	AI523368.1	EST_HUMAN	ar78h05.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
296	13101	25743	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1094	13922	26482	3.26	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1884	14428	27125	8.09	4.0E-90	X89033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2992	15759	28405	0.98	4.0E-90	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15759	28436	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15759	28437	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4608	17343	29975	7.65	4.0E-90	D67675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17475	30109	2.17	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17500	30123	2.33	4.0E-90	M95967.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-90	BF516168.1	EST_HUMAN	UI-H-BW1-any-b-04-O-U.s1 NCI_OGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
7751	20447	33571	1.08	3.0E-90	BF516168.1	EST_HUMAN	UI-H-BW1-any-b-04-O-U.s1 NCI_OGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11630	24227	37551	17.81	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
208	13020	25662	4.71	2.0E-90	BE537813.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3483834 5'
1150	13905	26567	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1150	13905	26568	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3826	16577	29208	1.7	2.0E-90	AI138213.1	EST_HUMAN	qc54c02.x1 Soares_placenta_8tc9weeks_2Nbl-IP8tc9W Homo sapiens cDNA clone IMAGE:1713410 3'
4640	17374	30008	1.05	2.0E-90	AB008627.1	NT	similar to SW:OLF3_MOUSE P23275 OLFATORY RECEPTOR OR3.;
4853	17583	30206	7.31	2.0E-80	5728855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5095	18489	31410	4.86	2.0E-90	AW872686.1	EST_HUMAN	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
9689	22341	35534	4.78	2.0E-90	11427320	NT	ba49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2898881 5' similar to TR:O75208 O75208
9689	22341	35535	4.78	2.0E-90	11427320	NT	HYPOTHETICAL 35.5 KD PROTEIN.;
9860	22510	35706	1.37	2.0E-80	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
							Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
							Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
							AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'

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Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9860	22510	35707	1.37	2.0E-90	AU118085.1	EST_HUMAN	AU118085 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11447	23214	36446	2.8	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-90	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
365	15516	25805	1.36	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	16516	25805	1.43	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
678	13454	26098	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26099	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26138	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1088	13846		2.47	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1662	14408		1.23	1.0E-90	BE379894.1	EST_HUMAN	60115953F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14632	27342	3.33	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2858	15826	28271	6.46	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (CBORF2), mRNA
4389	17126	29758	1.29	1.0E-90	AF167340.1	NT	Homo sapiens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 8 and complete cds, alternatively spliced
5589	18385	31295	2.58	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.98	1.0E-90	11426910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-90	11419408	NT	Homo sapiens cytochrome P450, 51 (lanosterol 14-alpha-demethylase) (CYP51), mRNA
6973	19455	32475	0.66	1.0E-90	U91934.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7204	19889	32865	0.84	1.0E-90	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7671	20240	33345	2.77	1.0E-90	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
8720	21412	34555	3.73	1.0E-90	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9183	21863		0.93	1.0E-90	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21894	35062	1.53	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9215	21894	35063	1.53	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
10567	23253	36490	1.5	1.0E-90	R25686.1	EST_HUMAN	yg44d11.12 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:36477 5'
10967	23643	36898	1.76	1.0E-90	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24904	31001	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12680	24904	31002	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4172	16912	29542	6	8.0E-91	D12234.1	EST_HUMAN	HUM000S381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	28869	1.08	7.0E-91	AF063788.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
8205	20899	34036	1.8	7.0E-91	11419234	NT	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
10198	22846	36062	0.68	7.0E-91	AI904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
3467	16223	28877	1.93	5.0E-91	AA702794.1	EST_HUMAN	z90b04.s1 Soares_fetal_liver_spleen_1NFS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	29840	11.73	5.0E-91	AU143539	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4480	17215	28841	11.73	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4757	17489	30116	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17489	30117	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	19285	32289	1.25	5.0E-91	AI878995.1	EST_HUMAN	eu49f09.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAHE Q47898 N4-(BETA-N-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR ;
8108	20799	33931	1.2	5.0E-91	BF314682.1	EST_HUMAN	601901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130933 5'
8658	21350	34495	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
8658	21350	34496	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
12612	24919		1.74	5.0E-91	AI193566.1	EST_HUMAN	q970f11.x1 Soares_fetal_lung_NbHL10W Homo sapiens cDNA clone IMAGE:1744366 3' similar to contains MIR.b2 MIR MIR repetitive element ;
3197	16660	28611	1.69	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3197	16660	28612	1.69	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10948	23530	36775	4.49	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12084	24596	31082	1.99	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
12094	24596	31127	1.99	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
1813	14360	27049	3.07	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1813	14360	27050	3.07	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3334	16094	28746	1.82	3.0E-91	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3456	16211	28863	3.39	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3456	16211	28864	3.39	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16320	29159	1.45	3.0E-91	AF094530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cde
4551	17286	29015	3.79	3.0E-91	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5600	18395	31305	1.27	3.0E-91	11434994	NT	Homo sapiens epididymal secretory protein (19.5kD) (HE-1), mRNA
6212	18987		2.48	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6488	19255	32258	5.82	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6488	18255	32257	5.82	3.0E-91	11497811	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7538	20208	33308	4.97	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7538	20208	33307	4.97	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8669	21361	34508	2.58	3.0E-91	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9188	21858	35023	2.83	3.0E-91	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10803	23488	36723	1.41	3.0E-91	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11160	23827	37105	1.66	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37109	1.66	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12335	24749	31067	2	3.0E-91	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12667	17898	30489	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12667	17898	30490	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12878	25501	5.06	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	26945	6.31	1.0E-91	AW449748.1	EST_HUMAN	U1-H-B13-aks-d-01-q-UJ-s1 NCJ_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30780	0.97	1.0E-91	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
8743	19577	32810	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
8743	19577	32811	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	26340		1.35	1.0E-91	H15212.1	EST_HUMAN	yn30603.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	26639	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1219	13970	26840	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5120	17638	30454	0.9	9.0E-92	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5376	18176	30967	4.86	9.0E-92	J03007.1	NT	Human Na ⁺ K ⁺ ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6362	19132	32127	4.03	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33576	7.17	9.0E-92	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 6
7756	20452	33577	7.17	9.0E-92	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20966	34107	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8272	20966	34108	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9174	21844	35010	1.95	9.0E-92	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-92	7706868	NT	Homo sapiens RNB6 (RNB6), mRNA
91	12917	25554	2.25	8.0E-92	W26367.1	EST_HUMAN	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13086	25728	3.29	8.0E-92	BE386383.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3814687 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5041	17760	30374	0.96	8.0E-92	AW157571.1	EST_HUMAN	eu83108.x1 Schnelder fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.65	8.0E-92	AB046920.1	NT	TR:O60302 O60302 KIAA0555 PROTEIN, contains element MER22 repetitive element;
							Homo sapiens mRNA for KIAA1600 protein, partial cds
							Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
5411	18210	30918	0.97	8.0E-92	AF264717.1	NT	Homo sapiens MCP-4 gene
6451	19219	32217	1.31	8.0E-92	AJ000979.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
6455	19223	32222	0.92	8.0E-92	AF179428.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
7890	20885		0.55	8.0E-92	11416991	NT	Homo sapiens membrane protein (mp19) gene, exon 11
8324	21017	34152	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8324	21017	34153	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8422	21115	34253	0.58	8.0E-92	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
8960	21651	34801	2.92	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
9925	22673	35771	1.18	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL protein
10707	23397	36836	3.2	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11333	24024	37329	1.81	8.0E-92	4503340	NT	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
23	12851	25468	1.62	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
64	12892	25525	1.01	7.0E-92	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
230	15538	26880	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
230	15538	26881	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
577	13357	26876	1.34	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds
1257	14006	26876	1.89	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2184	14913	27845	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2184	14913	27846	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2568	16282	28020	1.48	7.0E-92	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2728	15435	28171	2.2	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (DTS156E), mRNA
2757	15462	28205	1.23	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3340	17877	28760	1.08	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3340	17877	28761	1.06	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2980 nt]
4547	17282	28912	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2980 nt]
4547	17282	28913	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2980 nt]

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4944	17671	30280	0.98	7.0E-92	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5180	17889	30504	6.05	7.0E-92	AA446206.1	EST_HUMAN	zmv6d12.r1 Soares, testis NIH Homo sapiens cDNA clone IMAGE:781176 5'
1582	14328		1.29	5.0E-92	BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805018 5'
2768	15473	28215	1.6	3.0E-92	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902839 5'
6786	18577	31506	2.6	3.0E-92	AA378338.1	EST_HUMAN	EST1020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
10684	23355	36594	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
10684	23355	36595	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
24	12852	25487	1.68	2.0E-92	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12986	25625	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
174	12986	25626	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
732	13506	28162	1.33	2.0E-92	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	13506	28163	1.33	2.0E-92	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14452		2.22	2.0E-92	S78653.1	NT	mrg-1nas-related [human, Genomic, 2416 nt]
1929	14665	27378	2.36	2.0E-92	AI818119.1	EST_HUMAN	wk27d07.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413649 3' similar to TR:Q12844
1929	14665	27379	2.36	2.0E-92	AI818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN;
2041	14776	27504	5.98	2.0E-92	4506860	NT	wk27d07.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2684	16374	28113	19.2	2.0E-92	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN;
3600	16353	28992	2.61	2.0E-92	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, rydocal) (SDC4) mRNA
3600	16353	28993	2.61	2.0E-92	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3674	16427	29068	5.57	2.0E-92	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4256	16997	29628	1.23	2.0E-92	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
4936	17684		2.51	2.0E-92	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5673	18468	31983	0.84	2.0E-92	AF016535.1	NT	DKFZp434C0414_r1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434C0414 5'
6209	18984		0.6	2.0E-92	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6517	19282	32285	3.03	2.0E-92	AB028991.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7364	20045		0.61	2.0E-92	U67780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7387	20045		0.78	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8764	21446	34594	1.69	2.0E-92	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10659	23360	36587	4.93	2.0E-92	11434900	NT	hcd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR:O02711
							O02711 PRO-POL-DUTPASE POLYPROTEIN;
							Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10930	23610	38859	1.48	2.0E-92	11434759	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	23663	36908	2.54	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31048	2.69	2.0E-92	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12697	15374	28113	2.51	2.0E-92	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1842	14580	27294	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1842	14580	27295	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2066	14798	27325	8.83	1.0E-92	4506668	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1), mRNA
8145	20839	33971	1.29	1.0E-92	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
9062	21751	34910	3.82	1.0E-92	A1380366.1	EST_HUMAN	tg01b02.x1 NCI CGAP CLL 1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element; contains element MER17 repetitive element;
9062	21751	34911	3.82	1.0E-92	A1380366.1	EST_HUMAN	tg01b02.x1 NCI CGAP CLL 1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element; contains element MER17 repetitive element;
2023	14758	27487	3	9.0E-93	AU121881.1	EST_HUMAN	AU121881 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2035	14770		5.48	9.0E-93	AA318723.1	EST_HUMAN	EST188414 HCG cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2653	15363		1.45	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3602	16355	28995	1.11	9.0E-93	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
11645	24242		9.71	9.0E-93	11418526	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
6351	19121	32112	0.58	8.0E-93	AW014042.1	EST_HUMAN	U1-H-B10-aah-h-08-Q-U1.s1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32113	0.58	8.0E-93	AW014042.1	EST_HUMAN	U1-H-B10-aah-h-08-Q-U1.s1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6466	19262	32263	2.51	8.0E-93	BF036364.1	EST_HUMAN	601490821F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3663608 5'
239	13048	25687	9.92	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3073	15839	28482	0.84	8.0E-93	11526178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6581	19344	32358	1.02	8.0E-93	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6817	19478	32501	1.12	8.0E-93	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1359	14107	26782	3.51	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1366	14133	26807	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc08c08.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1366	14133	26808	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc08c08.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
3227	15990	26543	2.98	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5710	18503	31425	1.01	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HCC1) processed pseudogene, complete cds

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18799		1.02	5.0E-93	AF045555.1	NT	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7614	20280	33388	3.6	5.0E-93	AF087136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34338	1	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21195	34339	1	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9523	22176	36360	2.16	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-93	6032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9970	22618	39821	1.9	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23415	36656	2.25	5.0E-93	11439589	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12343	25052	30959	2.15	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
12805	25052	30959	1.44	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
86	12812		6.52	4.0E-93	AA459933.1	EST_HUMAN	z50a09.s1 Scars_testis_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW-CLPA_RAT P37397 CALPONIN, ACIDIC ISOFORM:
432	13218	25863	1.39	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
432	13218	25864	1.39	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13527	26188	1.87	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
755	13527	26187	1.67	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1160	13914	26577	1.53	4.0E-93	8923668	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1970	14706	27424	4.3	4.0E-93	AF047877.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in Intron 5
2241	14869	27707	0.98	4.0E-93	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
2397	15178	27855	1.55	4.0E-93	AL163301.2	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
3553	16308	28958	0.73	4.0E-93	7705396	NT	Homo sapiens chromosome 21 segment HS21C101
4026	16771	29403	1.67	4.0E-93	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31264	4.9	4.0E-93	T46864.1	EST_HUMAN	yb94c12.1 Striatogene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP-A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	27023	6.17	4.0E-93	AF602051.1	EST_HUMAN	AV692051 GKC Homo sapiens cDNA clone GKCDF07 5'
3643	16306	28035	7.36	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
3643	16306	28036	7.35	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4210	16851		1.31	3.0E-93	AF225886.1	NT	Homo sapiens tensin mRNA, complete cds
5697	18491	31412	0.79	3.0E-93	AI553853.1	EST_HUMAN	in29g03.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'
5697	18491	31413	0.79	3.0E-93	AI553853.1	EST_HUMAN	in29g03.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6468	18235	32236	1.21	3.0E-93	11428182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
10703	23394	36631	4.27	3.0E-93	AI824829.1	EST_HUMAN	wb02405.x1 NCI_CGAP GC6 Homo sapiens cDNA clone IMAGE:2304489 3'
185	12888	25637	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
185	12898	25638	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.36	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1610	14357	27046	1.33	2.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
2128	14857	27587	1.33	2.0E-93	U40763.1	NT	Human Cdk-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2490	15207	27649	1.68	2.0E-93	BE262982.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5332	18135	30794	5.42	2.0E-93	AW964365.1	EST_HUMAN	EST379458 IMAGE resequences, MAGH Homo sapiens cDNA
5342	18145	30824	0.66	2.0E-93	4758153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5455	18254		1.04	2.0E-93	BF361459.1	EST_HUMAN	QV3-H10513-290300-126-104 HT0513 Homo sapiens cDNA
5560	18347	31266	1.13	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC571318), mRNA
5565	18362	31270	0.65	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6584	19347		1.1	2.0E-93	AW502002.1	EST_HUMAN	UI-HF-BND-ake-g-09-0-UL1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3078329 5'
11014	23888	36946	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11014	23888	36947	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12233	24686		2.84	2.0E-93	AA128735.1	EST_HUMAN	z29c10.s1 Soares_pregnant_uterus_NBHPU Homo sapiens cDNA clone IMAGE:503346 3'
12314	24736		2.17	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12571	24959		10.79	2.0E-93	BF035327.1	EST_HUMAN	601498531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
101	12927	25664	2.29	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
101	12927	25665	2.29	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
505	13289	25923	4.25	1.0E-93	7857018	NT	Homo sapiens hypothetical protein (D3328E19.C1.1), mRNA
588	13368	25994	4.57	1.0E-93	AI148755.1	EST_HUMAN	cy84b08.x1 NCI_CGAP CLL1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR-Q62384 Q62384 ZINC FINGER PROTEIN ;
852	13622	26292	8.91	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1144	13959	26560	2.9	1.0E-93	4503872	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1215	13965	26632	7.65	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1215	13965	26633	7.65	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-93	AB048783.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
1324	14073	26746	0.99	1.0E-93	AF167706.1	NT	Homo sapiens cyclin-rich repeat-containing protein S52 precursor, mRNA, complete cds
2337	15061	27798	1.33	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2496	15194	27924	1.7	1.0E-93	AF055066.1	NT	Homo sapiens MHC class 1 region
2511	15228		0.86	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2825	14022	26689	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532865 5'
2826	14022	26690	1.47	1.0E-93	BE297368.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532865 5'
2834	15700	28349	7.48	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	15973		1.27	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HLEO1) mRNA, complete cds
4395	17132	29763	2.6	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5678	18472	31389	0.98	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
5825	18614	31546	10.32	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6104	18882	31850	1.4	1.0E-93	7662241	NT	Homo sapiens KIAA0872 gene product (KIAA0872), mRNA
6694	19611	32650	2.01	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7160	19637	32907	3.49	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon1, complete cds
8158	20852	33984	2.54	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8441	21133	34269	1.2	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8547	21239	34382	1.38	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
8552	20423	33542	1.79	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
8366	20427	33546	1.26	1.0E-93	AF091395.1	NT	Homo sapiens Trlo isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9525	22278	35467	0.79	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22693	35910	0.62	1.0E-93	11433846	NT	Homo sapiens ryanodine receptor 3 (RYSR3), mRNA
12487	24846		1.84	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12566	24898		2.64	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12739	25391		1.49	1.0E-93	AF240786.1	NT	Homo sapiens chromosome 21 segment HS21C009
10492	23138		1.03	8.0E-94	AL163209.2	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
3944	16694	28333	1.63	8.0E-94	AF142482.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
6283	18088	30747	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31698	4.22	5.0E-94	AA722434.1	EST_HUMAN	zg87g06.e1 Scores_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409594 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6910	19848	32693	1.29	5.0E-94	AI015800.1	EST_HUMAN	0183405.s1 Scores: total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623369 3'
8537	21229	34371	1.11	5.0E-94	BF529115.1	EST_HUMAN	602042163F1 NC1_CGAP_Bim87 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.89	5.0E-94	T89398.1	EST_HUMAN	yd88b04.s1 Scores: fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:116239 3'
12756	25017		1.5	5.0E-94	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.86	5.0E-94	8558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1834	14573		2.84	4.0E-94	LO5094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2662	16372	28111	0.92	4.0E-94	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3661	18414	28053	1.38	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Scores: NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3661	18414	28054	1.38	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Scores: NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4669	17403	30038	2.87	4.0E-94	AI591312.1	EST_HUMAN	1w11f10.x1 NC1_CGAP_Bim52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q16265 Q16266 PROTEIN TYROSINE PHOSPHATASE;
6376	19145	32143	1.82	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.18	4.0E-94	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23198	36429	1.5	4.0E-94	11545792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
597	13375	26005	1.44	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	13479	26127	0.88	3.0E-94	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14475	27173	1.19	3.0E-94	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-94	AF167708.1	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1765	14507	27208	2.61	3.0E-94	4557566	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27534	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27535	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
4166	16906	28534	0.83	3.0E-94	AA484805.1	EST_HUMAN	zw63g08.r1 Scores: total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 6'
5595	18390	31301	3.41	3.0E-94	AB011536.1	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6059	18839	31800	1.33	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
6360	19130	32125	4	3.0E-94	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7696	20359	33473	1.7	3.0E-94	AF152309.1	NT	Homo sapiens protein alpha 13 (PCDH-alpha13) mRNA, complete cds
8088	20792	33923	1.18	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0079 protein, partial cds
8486	21178	34322	4.35	3.0E-94	AB014579.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
9492	22145	35326	5.23	3.0E-94	AF087942.1	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11043	23713	36983	3.26	3.0E-94	4757821	NT	Homo sapiens truncated form 1 lacking leucine zipper mRNA, complete cds
11679	24274	37598	1.94	3.0E-94	U26711.1	NT	

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9653	22305	35501	0.7	2.0E-94	AI910393.1	EST_HUMAN	wi30h11.x1 NCI CGAP_Co18 Homo sapiens cDNA clone IMAGE:2391813 3'
9653	22305	35502	0.7	2.0E-94	AI910393.1	EST_HUMAN	wi30h11.x1 NCI CGAP_Co18 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12959	25601	1.94	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3086	15851	28492	2.07	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3086	15851	28493	2.07	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4328	17065	29884	1.7	1.0E-94	9506692	NT	Homo sapiens hypohelical protein (FLJ20746), mRNA
5982	18763	31727	0.84	1.0E-94	AE000269.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6173	18950	31922	0.73	1.0E-94	AL040518.1	EST_HUMAN	DKFZp434G0314.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6182	18959	31933	0.72	1.0E-94	H08270.1	EST_HUMAN	y18702.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6426	19194	32180	0.58	1.0E-94	AV726982.1	EST_HUMAN	AV726992 HTC Homo sapiens cDNA clone HTCBF05 5'
8012	20707	33837	0.63	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21886	35054	2.78	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9687	22339	35533	2.04	1.0E-94	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872059 5'
11000	23673	36929	3.08	1.0E-94	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11288	23949	37245	2.82	1.0E-94	AI272244.1	EST_HUMAN	ap22ae02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR-Q62845
11754	24345	37675	1.72	1.0E-94	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR. ;
12330	12959	25601	1.45	1.0E-94	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12608	12959	25601	1.51	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14206	26892	1.93	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3163	15916	28561	1.45	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3163	15916	28562	1.45	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-95	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30782	1.33	9.0E-95	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
8150	20844	33974	1.77	9.0E-95	AF274753.1	NT	M.musculus gyt1 gene (exons 1c and 2)
4499	17235	29868	3.18	8.0E-95	AI700998.1	EST_HUMAN	M.musculus gyt1 gene (exons 1c and 2)
4499	17235	29867	3.18	8.0E-95	AI700998.1	EST_HUMAN	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
6849	19549	32579	0.76	8.0E-95	11419376	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
7141	19828	32897	1.76	8.0E-95	11426529	NT	we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
7141	19828	32898	1.76	8.0E-95	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
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							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:234060

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8097	20791	33922	1.97	8.0E-95	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9265	22019	35187	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9265	22019	35188	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22399	35604	3.1	8.0E-95	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9778	22430		2.84	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22783	35994	0.8	8.0E-95	8845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10813	23307	36546	1.3	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11466	24069	37377	1.86	8.0E-95	10884024	NT	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
12535	24879		12.4	8.0E-95	AA629056.1	EST_HUMAN	zu84c01.s1 Scaptes_NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.11 L1 repetitive element;
269	13077	25718	32.81	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
269	13077	25719	32.81	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	29701	5.18	7.0E-95	M95708.1	NT	Homo sapiens Ly-8-like protein (CD59) mRNA, complete cds
4380	17117		1.3	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21G046
9117	21805	34971	1.31	4.0E-95	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
5356	18159	30842	1.58	3.0E-95	BF526041.1	EST_HUMAN	602071148F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214147 5'
5588	25071	31294	0.83	3.0E-95	4603364	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33027	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGe resequences, MAGe Homo sapiens cDNA
7268	19952	33028	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGe resequences, MAGe Homo sapiens cDNA
8278	20972	34113	0.55	3.0E-95	AW157233.1	EST_HUMAN	eu33b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:060463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
8278	20972	34114	0.55	3.0E-95	AW157233.1	EST_HUMAN	eu33b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:060463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9255	21934	35107	1.89	3.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9255	21934	35108	1.89	3.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9647	22289	35485	0.73	3.0E-95	BF213446.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
10792	23475	36716	1.49	3.0E-95	R63190.1	EST_HUMAN	yp87g11.11 Scaptes fetal liver spleen 1NF1LS Homo sapiens cDNA clone IMAGE:1944468 5'
1639	14385	27072	2.31	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1639	14385	27073	2.31	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1934	14669	27384	2.51	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1937	14872	27388	1.92	2.0E-95	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2426	15147	27880	2.22	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2426	15147	27881	2.22	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2468	15188	27925	3.28	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27973	1.85	2.0E-95	4768423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3156	15918	28564	1.95	2.0E-95	AF015492.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3552	16307	28956	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3552	16307	28957	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3608	16358	28998	1.29	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1388 protein, partial cds
3732	16485	29122	0.68	2.0E-95	AI280264.1	EST_HUMAN	qm01c02.x1 Soares_NhIMPu_S1 Homo sapiens cDNA clone IMAGE:1880646 3' similar to WP.T23G7.4
4328	17087	29695	1.32	2.0E-95	7657185	NT	CE03705.1
4978	17701	30308	2.72	2.0E-95	7661979	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
5392	18182	30884	4.21	2.0E-95	7705764	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18182	30885	4.21	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5811	18407	31319	1.27	2.0E-95	11225608	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5811	18407	31320	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5811	18407	31320	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5551	18448	31360	0.7	2.0E-95	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6051	18831	31784	5.04	2.0E-95	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6358	19128	32122	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6358	19128	32123	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6476	19243	32243	2.45	2.0E-95	AF287737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6666	19583	32617	1.82	2.0E-95	11435773	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9047	21731	34886	1.08	2.0E-95	11421795	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
10280	22928	36142	0.84	2.0E-95	11434330	NT	Homo sapiens ribophorin II (RPN2), mRNA
10624	23317	36557	2.46	2.0E-95	4757853	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11700	24295	37620	3.02	2.0E-95	7662289	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A) mRNA
11700	24295	37621	3.02	2.0E-95	7662289	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A) mRNA
12289	24724	31055	2.3	2.0E-95	AF240786.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12888	24980	30994	4.68	2.0E-95	11418164	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
5527	18325	31226	8.41	1.0E-95	AA284651.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
5527	18325	31227	8.41	1.0E-95	AA284651.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							Homo sapiens edenylosuccinate lyase (ADSL), mRNA
							z23n04.11 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
							TR:G1087084 G1087084 F55H2.6;
							z23n04.11 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
							TR:G1087084 G1087084 F55H2.6;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8094	20768	33920	1.49	9.0E-96	BE687259.1	EST_HUMAN	601497232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
5424	18223		2.77	8.0E-96	AW836047.1	EST_HUMAN	PMO-LT0019-050300-002-408 LT0019 Homo sapiens cDNA
3889	16639	29278	0.74	7.0E-96	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3476	16232	28886	20.13	6.0E-96	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3' end
5562	18348	31258	0.74	6.0E-96	11422642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.36	6.0E-98	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-98	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11594	24183	37498	2.05	6.0E-96	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11769	24360	37692	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11769	24360	37693	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	25754	2.74	5.0E-98	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26260	4.08	5.0E-98	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26261	4.08	5.0E-98	AB032998.1	NT	Homo sapiens phosphodiesterase 9A, cGMP-specific, rod, alpha (PDE9A), mRNA
2624	15396		1.43	5.0E-96	11416767	NT	H. sapiens DNA for monoamine oxidase type A (7) (partial)
4846	17576		1.39	5.0E-98	X60812.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6553	19318	32324	1.15	5.0E-98	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6684	19601	32639	5.18	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6684	19601	32640	5.18	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6923	19659	32706	0.71	5.0E-96	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7415	20092	33177	1.98	5.0E-98	AB024394.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8005	20700	33829	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
11793	24383	37716	1.4	5.0E-96	7661973	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4168	16808		12.32	3.0E-96	H68656.1	EST_HUMAN	y87h12.1 Soares fetal liver spleen cDNA clone IMAGE:212327 5'
406	13181		4.24	2.0E-96	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
730	13504	26158	0.91	2.0E-96	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4708	17440	30072	1.89	2.0E-96	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7361	20042	33120	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7361	20042	33121	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
8879	21570		5.63	2.0E-96	AV689461.1	EST_HUMAN	AV689461 GKCO Homo sapiens cDNA clone GKCFMD07 5'
12008	24543		2.81	2.0E-96	AW249440.1	EST_HUMAN	2819351.5 Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13386	26016	2.6	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13386	26017	2.9	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
656	13433	26074	3.38	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14518	27216	2.56	1.0E-96	AW95054.1	EST_HUMAN	EST387124 MAGE resequences, MAGC Homo sapiens cDNA
1774	14518	27217	2.56	1.0E-96	AW95054.1	EST_HUMAN	EST387124 MAGE resequences, MAGC Homo sapiens cDNA
2262	15527	27729	1.06	1.0E-96	U51472.2	NT	Felis catus superfast myosin heavy chain (slmyHC) mRNA, complete cds
6869	17946	30541	1.3	1.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6949	19431	32447	0.67	1.0E-96	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33938	1.24	1.0E-96	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8111	20805	33939	1.24	1.0E-96	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8616	21308	34450	20.66	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC683214), mRNA
8749	21441	34588	2.09	1.0E-96	AF274853.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35924	1.24	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
10059	22707	35925	1.24	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
11999	13386	26016	1.97	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11999	13386	26017	1.97	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.69	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
8832	21524	34671	0.69	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10497	23143	36369	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	36370	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37290	1.46	6.0E-97	X15804.1	NT	Human mRNA for alpha-actinin
7913	20608	33739	1.91	5.0E-97	AL043314.2	EST_HUMAN	DKFZp34N0323_r1_434 (synonym: htes3) Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
8042	20736	33869					z07e12.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
9674	22227	35412	11.73	6.0E-97	AA418026.1	EST_HUMAN	G1304125 PMS4 MRNA
11535	24135	37441	2.66	5.0E-97	BF154912.1	EST_HUMAN	RC0-BT0812-260500-032-a09 BT0812 Homo sapiens cDNA
11535	24135	37441	1.98	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
918	13685	26349	1.59	4.0E-97	BE004436.1	EST_HUMAN	CMD-BN0106-170300-293-e06 BN0106 Homo sapiens cDNA
928	13685	26359	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
928	13685	26360	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
1903	14940	27349	1.07	4.0E-97	5453572	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5478	18277	31172	0.81	4.0E-97	4557326	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18558	31482	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNMR2A) mRNA; complete cds
5765	18558	31483	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNMR2A) mRNA; complete cds
6725	19559	32590	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6725	19559	32591	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6921	19667	32703	1	4.0E-97	7710126	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6988	19450	32468	1.05	4.0E-97	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8038	20731	33863	0.57	4.0E-97	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8256	20950	34087	2.63	4.0E-97	11421793	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34353	0.76	4.0E-97	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
9147	21878	35044	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11116	23786	37082	1.88	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11116	23786	37083	1.88	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23179	36407	3.61	4.0E-97	AB042557.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	36411	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	36412	1.62	4.0E-97	AB033116.1	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12180	24652		7.76	4.0E-97	11418318	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
236	13046	25685	1.14	3.0E-97	AB032998.1	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26284	29.53	3.0E-97	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26295	29.53	3.0E-97	4502168	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
1422	15569	26855	1.29	3.0E-97	4758813	NT	Human beta-prime-adaplin (BAM22) gene, exon 7
2440	15529	27895	1.68	3.0E-97	U38255.1	NT	Homo sapiens pericentrin (PCNT) mRNA
3254	16016	28667	1.3	3.0E-97	5174478	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4729	17461	30098	12.98	1.0E-97	4503470	NT	Homo sapiens cDNA clone IMAGE:3681821 5'
6333	19103	32091	2.48	1.0E-97	BE566486.1	EST_HUMAN	RCQ-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
9344	20415	33534	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCQ-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
9344	20415	33535	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCQ-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
8664	22316	35513	1.0	1.0E-97	R10887.1	EST_HUMAN	yf38c08.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:129134 3'
10604	23298	36538	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
10604	23298	36539	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11280	23941	37235	2.03	1.0E-97	AA553761.1	EST_HUMAN	h29g02.s1 NCI CGAP Cc11 Homo sapiens cDNA clone IMAGE:1014962 3'
11445	23212	36443	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11445	23212	36444	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
881	13650	26319	3.52	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-s12 BT0724 Homo sapiens cDNA
1253	14002	26870	1.12	9.0E-98	8393032	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18985		0.71	9.0E-98	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7190	19876	32949	0.67	9.0E-98	7661871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA00028), mRNA
7266	19969	33046	0.6	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (ytiso) 9 (AKAP9), mRNA
7825	20520	33846	4.79	9.0E-98	4759119	NT	Homo sapiens death-associated protein (DAP), mRNA
7825	20520	33847	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34954	6.28	9.0E-98	X06989.1	NT	Human mRNA for amyloid A4(751) protein
9124	21812	34977	1.5	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9192	21862	35027	1.59	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9238	21917		0.96	9.0E-98	AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9267	22021	35190	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35191	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10160	22808	36026	0.45	9.0E-98	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10826	23606	36856	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10926	23606	36857	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36932	1.39	9.0E-98	11418982	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
11850	24434	37776	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11850	24434	37777	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1351	14099	26774	0.92	8.0E-98	AB033768.1	NT	Homo sapiens hPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
1719	14462	27161	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1719	14462	27162	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3775	16527	29166	6.89	8.0E-98	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5991	18772	31735	0.99	5.0E-98	BE885873.1	EST_HUMAN	601507503F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3909097 6'
2178	14905	27638	1.14	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2613	15324	28067	0.99	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2753	15458		2.9	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6947	19547	32578	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6947	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34485	2.73	3.0E-98	H46898.1	EST_HUMAN	y017g09.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:178240 5'
8197	21896	35030	0.48	3.0E-98	8922086	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
9783	22434	35639	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone IB
9783	22434	35640	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone IB
10371	23017	36233	0.96	3.0E-98	BE900454.1	EST_HUMAN	601673686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3556517 5'
10872	23552	36799					
11863	24447	37788	4.11	3.0E-98	U59309.1	NT	Human fumarate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
12888	25262		1.56	3.0E-98	L26405.1	NT	Homo sapiens (huc) mRNA, complete cds
12751	25013		1.47	3.0E-98	BE382519.1	EST_HUMAN	601297955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
2071	14803	27531	3.58	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2231	14959	27699	2.66	2.0E-98	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
4264	17005	29637	1.53	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4306	17045	29870	0.8	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4778	17508	30129	3.21	2.0E-98	AF218902.1	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4778	17508	30130	1.34	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
5131	17849	30486	1.39	2.0E-98	4758975	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
5292	18097	30757	4.03	2.0E-98	7706512	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
6557	19322	32329	1.15	2.0E-98	4505788	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor (LOC51735), mRNA
7523	20184	33286	1.07	2.0E-98	11431271	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20184	33287	1.07	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8506	21198	34342	4.94	2.0E-98	11428813	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8506	21198	34343	4.94	2.0E-98	11428813	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8591	21283	34421	0.58	2.0E-98	L76688.1	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34422	0.58	2.0E-98	L76688.1	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
9437	22115	35280	1.48	2.0E-98	X12664.1	NT	Homo sapiens NKAT4b mRNA, complete cds
10313	22960		1.37	2.0E-98	7705888	NT	Homo sapiens NKAT4b mRNA, complete cds
11155	23822	37103	1.42	2.0E-98	U22028.1	NT	Homo sapiens arginase gene exon 3 (EC 3.5.3.1)
							Homo sapiens AIM-1 protein (LOC51151), mRNA
							Human cytochrome P450 (CYP2A13) gene, complete cds
396	13181	25829	16.4	1.0E-98	A1862007.1	EST_HUMAN	tw36504.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2281743 3' similar to SW:RL2B_HUMAN
442	13228	25871	2.12	1.0E-98	AW998811.1	EST_HUMAN	P29316 60S RIBOSOMAL PROTEIN L29A.;
							PMO-BN0065-100300-001-c08 BN0065 Homo sapiens cDNA
1789	14529	27237	11.24	1.0E-98	N49818.1	EST_HUMAN	y23f05.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:249585 5' similar to PIR:S64204 S64204 ribosomal protein L29 - human ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5234	18040	30868	3.4	1.0E-98	AA195854.1	EST_HUMAN	z988c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:828240 5' similar to TR:G806582
5482	18281	31178	1.1	1.0E-98	BE390627.1	EST_HUMAN	G806582 NEBULIN ;
5482	18281	31178	1.1	1.0E-98	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
8698	21587	34728	2.7	1.0E-98	AF141349.1	NT	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
8896	21587	34727	2.7	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31441	0.88	9.0E-99	AB05004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31442	0.88	9.0E-99	AB05004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5949	18731	31691	4.21	9.0E-99	AW988635.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
11068	23736	37009	2.75	9.0E-99	AI479929.1	EST_HUMAN	EST380711 MAGe resequences, MAGJ Homo sapiens cDNA
11068	23736	37010	2.75	9.0E-99	AI479929.1	EST_HUMAN	tm69h07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11380	23998	37298	2.13	9.0E-99	AA134604.1	EST_HUMAN	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8627	21319	34481	1.86	8.0E-99	9835487	NT	tm69h07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
5743	18635	31458	10.03	7.0E-99	AF035808.1	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11610	24208	37532	2.99	7.0E-99	AF001886.1	NT	z988c09.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
459	13244	25886	1.89	6.0E-99	U10691.1	NT	TR:G662894 G662894 GPI-ANCHORED PROTEIN P137 ;
3688	16618	26258	1.15	6.0E-99	AW976364.1	EST_HUMAN	Human endogenous retrovirus, complete genome
4699	17433	30064	1.21	6.0E-99	4502660	NT	Homo sapiens oscillin (hLn) gene, exon 6
6503	19268	32270	0.72	6.0E-99	7706136	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
6578	19341	32354	1.01	6.0E-99	L43610.1	NT	Homo sapiens G2 protein mRNA, partial cds
6578	19341	32355	1.01	6.0E-99	X99101.1	NT	EST388473 MAGe resequences, MAGN Homo sapiens cDNA
8003	20698	33826	1.18	6.0E-99	6601689	NT	Homo sapiens CD34 antigen (CD34) mRNA
8022	20717	33849	0.53	6.0E-99	AB036429.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8663	21355	34502	2.28	6.0E-99	AF080255.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8762	21454	34602	3.33	6.0E-99	AF080255.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8762	21454	34603	3.33	6.0E-99	AF080255.1	NT	H sapiens mRNA for estrogen receptor
8821	21513	34667	0.6	6.0E-99	11431894	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8821	21513	34668	0.6	6.0E-99	11431894	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10620	23313	36553	3.89	6.0E-99	9910279	NT	Homo sapiens betaactin protein mRNA, complete cds
11433	23200	36431	2.01	6.0E-99	9910279	NT	Homo sapiens betaactin protein mRNA, complete cds
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens betaactin protein mRNA, complete cds

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1857	14693	27406	1.38	5.0E-99	Y11365.1	NT	H.sapiens IMPA gene, exon 8
4626	17261	29898	1.56	5.0E-99	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12208	24674		2.81	5.0E-99	BE880177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914381 5'
8220	20914		4.88	3.0E-99	M95986.1	NT	Human E2AF-HLA fusion protein (E2AFHLF) mRNA, complete cds
1217	13968		6.88	2.0E-99	AW274792.1	EST_HUMAN	XP09608.x1 NC1_CGAP_JH9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3253	16015	28666	1.29	2.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4506	17241	29874	1.04	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7574	20243	33348	0.58	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8608	21300	34444	9.55	2.0E-99	W23507.1	EST_HUMAN	zb46608.1 Soares_fetal_jung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to gb:M16182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
9050	21739	34897	0.76	2.0E-99	R78254.1	EST_HUMAN	y81b09.1 Soares placenta NB2HP Homo sapiens cDNA clone IMAGE:145625 5'
11049	23719	36990	3.39	2.0E-99	AF247457.2	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
11798	24378	37708	1.46	2.0E-99	10863960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
307	13111	26761	1.63	1.0E-99	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
370	13166	25809	1.02	1.0E-99	11526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (80kD) (GABPA), mRNA
1400	14147	26828	2.09	1.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1549	14295	26981	2.64	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1549	14295	26982	2.64	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1920	14657	27367	1.41	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
1920	14657	27368	1.41	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3083	15848	28489	1.36	1.0E-99	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4347	17096	29716	2.82	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4347	17096	29716	2.82	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5698	18453	31387	0.68	1.0E-99	7692349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
6707	19622	32665	1.28	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6707	19622	32666	1.28	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32789	0.76	1.0E-99	X98022.1	NT	H.sapiens EG-AP gene exon 2
9099	21787		1.49	1.0E-99	11419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9420	22098	35270	1.71	1.0E-99	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711
11084	23754	37029	2.01	1.0E-99	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN;
11084	23754	37030	2.01	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
11084	23754	37030	2.01	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

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11141	23808	37088	1.8	1.0E-99	5901978	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSP2BP), mRNA
11350	24040	37343	2.77	1.0E-99	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11884	24525		6.88	1.0E-99	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	28443	0.95	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	28443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
68	12894	25528	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
68	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
85	12911	25550	0.89	1.0E-100	AW275237.1	EST_HUMAN	x78b11.x1 NCL CGAP_Bn63 Homo sapiens cDNA clone IMAGE:2824605 3'
185	12979	25618	1.24	1.0E-100	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
308	13113	25753	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
334	13135	25770	3.08	1.0E-100	T05087.1	EST_HUMAN	EST02975 Fetal brain, Striatum (cat936206) Homo sapiens cDNA clone IMAGE:2722164 3'
427	13213		1.28	1.0E-100	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
477	13263		7.19	1.0E-100	X98631.1	NT	G.gorilla DNA for ZNF80 gene homolog
498	13280	26916	1.33	1.0E-100	BE180809.1	EST_HUMAN	RC3-HT0628-040500-022-b09 HT0625 Homo sapiens cDNA
988	13758	26418	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
988	13758	26418	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1415	14163	26846	3.14	1.0E-100	BF530735.1	EST_HUMAN	602072084F1 NCL CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4215039 5'
1538	14285		1.14	1.0E-100	AW207595.1	EST_HUMAN	U1-H-B11-afk-c-07-0-U1.st NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
1543	14289	26876	1.81	1.0E-100	AI200857.1	EST_HUMAN	q162109.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA
1856	14594	27309	1.41	1.0E-100	AB032894.1	NT	P81081 CYSTATIN1
2238	14966		1.39	1.0E-100	D83349.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2439	15159	27894	1.33	1.0E-100	X62468.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2710	15417	28166	2.36	1.0E-100	D11078.1	NT	H.sapiens mRNA for IFN-gamma (pKC-0)
3018	15784		5.5	1.0E-100	AF057354.1	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
4186	16927	29558	1.52	1.0E-100	AF057354.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4211	16952	29576	2.14	1.0E-100	4503792	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4418	17164	29785	1.03	1.0E-100	AF036943.1	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5031	17751	30362	2.66	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
5031	17751	30363	2.66	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5207	18016	30837	1.62	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5421	18220	30831	0.59	1.0E-100	AW075983.1	EST_HUMAN	xa8201.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb:X12433
5814	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31368	1.26	1.0E-100	AF135116.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18650	31814	0.94	1.0E-100	4557568	NT	Human mRNA for plasma Inter-alpha-trypsin inhibitor heavy chain H(3)
6071	18650	31815	0.94	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113		1.67	1.0E-100	5729897	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6405	19174	32173	5.64	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6457	18224	32224	1.87	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6568	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'
6670	19587	32622	0.9	1.0E-100	7382479	NT	yf3c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	ae33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
6786	19530	32557	1.13	1.0E-100	BF376478.1	EST_HUMAN	ae33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
6786	19530	32558	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
6793	19537	32565	0.76	1.0E-100	X04571.1	NT	MR1-TN0046-060900-004-505 TN0046 Homo sapiens cDNA
8430	21123	34261	7.17	1.0E-100	BF103853.1	EST_HUMAN	MR1-TN0046-060900-004-505 TN0046 Homo sapiens cDNA
8466	21158		4.8	1.0E-100	AL163203.2	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
8912	21603	34748	0.68	1.0E-100	AU116951.1	EST_HUMAN	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
8912	21603	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
9132	21820	34988	3.52	1.0E-100	AB040918.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089		2.78	1.0E-100	A1972388.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9333	20404	33520	1.82	1.0E-100	AW99881.1	EST_HUMAN	Homo sapiens mRNA for KIAA1485 protein, partial cds
9386	22048		7.61	1.0E-100	AU127720.1	EST_HUMAN	MR22 repetitive element ;
9483	22136	35316	2.11	1.0E-100	AB046846.1	NT	PMO-BND065-100300-007-c06 BND065 Homo sapiens cDNA
9483	22136	35317	2.11	1.0E-100	AB046846.1	NT	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9743	22394	35599	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9905	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	hm83c11.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969386 5'
10368	23014	36230	1.47	1.0E-100	BF347519.1	EST_HUMAN	hm83c11.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969386 5'
							AV732101 HTF Homo sapiens cDNA clone HTFBI01 5'
							602020554F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4156165 5'

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10658	23349	36586	0.27	1.0E-100	BF327292.1	EST_HUMAN	MRO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11326	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11326	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11356	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11633	24230		1.59	1.0E-100	AW875464.1	EST_HUMAN	QV2-PT0012-010300-070-d04 PT0012 Homo sapiens cDNA
11681	24276		1.48	1.0E-100	AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11749	24340	37668	1.57	1.0E-100	AA115605.1	EST_HUMAN	zk89a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489984 5'
11749	24340	37669	1.57	1.0E-100	AA115605.1	EST_HUMAN	zk89a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489984 5'
11907	24471	37806	0.97	1.0E-100	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF446549.1	EST_HUMAN	7q88R03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21997 Q21997
12200	24688	31071	3.87	1.0E-100	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12792	25044	30968	4.92	1.0E-100	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
75	12902	25539	1.75	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
75	12902	25540	1.75	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.92	1.0E-101	AB007915.2	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	13526	26185	1.99	1.0E-101	7687494	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
833	13603	26273	1.6	1.0E-101	4503914	NT	Homo sapiens phosphoribosylglycylamide formyltransferase, phosphoribosylglycylamide synthetase, phosphoribosylmethylimidazole synthetase (GART) mRNA
804	13871	26335	1.22	1.0E-101	Z20858.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
864	13729	26396	14.26	1.0E-101	BF681218.1	EST_HUMAN	602156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297291 5'
1030	13790	26449	1.63	1.0E-101	A1221878.1	EST_HUMAN	qg99a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1577	14324	27012	1.48	1.0E-101	5921480	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1577	14324	27013	1.46	1.0E-101	5921480	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27182	1.52	1.0E-101	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1740	14482	27183	1.52	1.0E-101	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1938	14673	27389	1.62	1.0E-101	4502996	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2050	14783	27510	1.79	1.0E-101	BE843070.1	EST_HUMAN	RC3-ST0281-160600-016-h08 ST0281 Homo sapiens cDNA
2349	15592	27808	1.71	1.0E-101	5728892	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2620	15332	28076	2.8	1.0E-101	X72993.1	NT	H. sapiens EWS gene, exon 5

Table 4

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2747	15452	28192	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2747	15452	28193	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3198	15961	28613	1.98	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF036327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
3375	16134	28790	1.93	1.0E-101	AW965596.1	EST_HUMAN	EST377629 IMAGE resequences, MAGI Homo sapiens cDNA
3395	15452	28192	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3395	15452	28193	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3857	16607	29246	3.69	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4874	17697	30304	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4974	17697	30305	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5235	18041	30669	1.22	1.0E-101	AW965139.1	EST_HUMAN	EST377212 IMAGE resequences, MAGI Homo sapiens cDNA
5913	18698	31651	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5913	18698	31652	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6995	19358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7173	19859		1.01	1.0E-101	11546780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7220	19905	32977	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	19905	32978	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20058	33138	7.48	1.0E-101	AW008476.1	EST_HUMAN	ww55112.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7474	20147		1.79	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3349801 5'
7623	20269	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7813	20508	33632	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7954	20649	33772	2.88	1.0E-101	BF029174.1	EST_HUMAN	601764866F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
8221	20916	34050	0.87	1.0E-101	AW630070.1	EST_HUMAN	h174g10.y1 NCI_CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2988578 5' similar to gb.J03143
8221	20916	34051	0.87	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	h174g10.y1 NCI_CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2988578 5' similar to gb.J03143
8908	21599	34741	1.08	1.0E-101	AA036800.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9229	21908	35080	0.83	1.0E-101	AB037772.1	NT	2k29g08.r1 Scores_pregnant uterus, NHPU Homo sapiens cDNA clone IMAGE:471898 5' similar to
9229	21908	35081	0.83	1.0E-101	AB037772.1	NT	PIR:S54840 S54840 YD9335.03c protein - yeast;
9362	20432	33553	17.13	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33553	17.13	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9375	21950	35123	17.01	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9657	22309	35508	6.24	1.0E-101	BE619867.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3876953 3'
9657	22309	35507	6.24	1.0E-101	BE619867.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3876953 3'
9794	22445	35650	0.72	1.0E-101	10863960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10308	22955	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23093	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601690825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10447	23093	36324	0.94	1.0E-101	BE973648.1	EST_HUMAN	601690825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10788	23471	36713	1.98	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
11053	23723	36994	2.11	1.0E-101	AB020628.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AI590078.1	EST_HUMAN	tm58c01.x1 NCL CGAP Brn25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb-M13361
11398	24004	37308	2.06	1.0E-101	AI590078.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37686	1.31	1.0E-101	AI908188.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37687	1.31	1.0E-101	AI908188.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
12461	24829	25485	13.68	1.0E-101	AW939051.1	EST_HUMAN	RC-BT163-290489-085 BT163 Homo sapiens cDNA
38	12866	25485	2	1.0E-102	AF012872.1	NT	RC-BT163-290489-085 BT163 Homo sapiens cDNA
332	13133	25767	4.35	1.0E-102	AL163303.2	NT	RC-BT163-290489-085 BT163 Homo sapiens cDNA
788	13530	26190	1.59	1.0E-102	M10976.1	NT	RC-BT163-290489-085 BT163 Homo sapiens cDNA
1095	13853	26512	2.8	1.0E-102	M10976.1	NT	RC-BT163-290489-085 BT163 Homo sapiens cDNA
1245	13994	26660	1.67	1.0E-102	11437146	NT	QY1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
1245	13994	26661	1.67	1.0E-102	11437146	NT	QY1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
1261	14010	26878	0.99	1.0E-102	BE408447.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
1398	14145	26823	119.7	1.0E-102	BE408447.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
2307	15032	27769	1.88	1.0E-102	AI124669.1	EST_HUMAN	Homo sapiens down-regulated in adenoma (DRA) mRNA
2307	15032	27770	1.88	1.0E-102	AI124669.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3061	15827	28472	1.32	1.0E-102	7661979	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4207	16948	28674	1.57	1.0E-102	AL163207.2	NT	Homo sapiens reelin (RELN) mRNA
4378	17115	29748	2.17	1.0E-102	BE251310.1	EST_HUMAN	Homo sapiens reelin (RELN) mRNA
							601286982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629801 5'
							am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to
							SW:GG95_HUMAN Q08379 GOLGIN-95. ;
							am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to
							SW:GG95_HUMAN Q08379 GOLGIN-95. ;
							Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
							Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
							AU141005 PLAGE4 Homo sapiens cDNA clone PLACE4000650 5'
							AU141005 PLAGE4 Homo sapiens cDNA clone PLACE4000650 5'
							Homo sapiens chromosome 21 segment HS21C007
							601107843F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3343882 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
							Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5287	18092	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5663	18458		9.17	1.0E-102	AB034951.1	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31414	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
							ar82f09.x1 Barcode colon HP1LRB7 Homo sapiens cDNA clone IMAGE:2161785 3' similar to TR:Q13137
							Q13137 NUP52.1
6200	18976	31954	2.93	1.0E-102	A1459825.1	EST_HUMAN	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7036	19728	32785	0.75	1.0E-102	BE72823.1	EST_HUMAN	6012721505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3818243 5'
7065	19759	32821	1.04	1.0E-102	BE386108.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
7265	19939	33014	8.23	1.0E-102	AJ238994.1	NT	Homo sapiens mRNA for Centaurin-alpha2 protein
7524	20195	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CUAARD03 5'
8122	20816	33952	3.91	1.0E-102	BE763051.1	EST_HUMAN	QV3-NT0025-210600-236408 NT0025 Homo sapiens cDNA
8392	21085	34032	1.32	1.0E-102	BE910555.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8392	21085	34218	2.21	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKc Homo sapiens cDNA clone GKCEEE11 5'
8501	21183	34335	1.19	1.0E-102	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8829	21621	34667	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605636 5'
8829	21621	34668	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605636 5'
							wf63b06.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.t1
							MER4 MER4 repetitive element
9150	21881	35049	0.52	1.0E-102	AJ72859.1	EST_HUMAN	MER4 MER4 repetitive element
9181	21851	35017	0.81	1.0E-102	AV755842.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMAFD06 5'
9221	21900	35069	2.28	1.0E-102	T70393.1	EST_HUMAN	ydl3407.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:87021 5'
9221	21900	35070	2.28	1.0E-102	T70393.1	EST_HUMAN	ydl3407.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:87021 5'
9311	21978	35151	3.79	1.0E-102	AU124629.1	EST_HUMAN	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
10281	22929		0.69	1.0E-102	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10367	23013	36228	3.67	1.0E-102	A1905037.1	EST_HUMAN	RC-BT074-260498-014 BT074 Homo sapiens cDNA
10367	23013	36229	3.67	1.0E-102	A1905037.1	EST_HUMAN	RC-BT074-260498-014 BT074 Homo sapiens cDNA
							on67h04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to
10428	23074	36295	1.24	1.0E-102	AA970788.1	EST_HUMAN	SW:CAV2_HUMAN P61636 CAVEOLIN-2, [1]
11008	23680	36937	2.56	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11008	23680	36938	2.56	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11008	23680	36938	2.56	1.0E-102	AA868675.1	EST_HUMAN	ek49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'
11280	23951	37248	1.55	1.0E-102	BF359243.1	EST_HUMAN	RC8-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA
11360	23987	37287	3.01	1.0E-102	BF359243.1	EST_HUMAN	RC8-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.57	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (GDM) paralogous genes, complete cds
11911	24475		3.52	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.69	1.0E-103	AW300862.1	EST_HUMAN	AK07612.x1 NCI_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3'
67	12895	25528	1.19	1.0E-103	BE908188.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12895	25529	1.19	1.0E-103	BE908188.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
88	12924	25661	10.5	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
203	13016	25658	1.45	1.0E-103	5453793	NT	Homo sapiens nucleolar protein (KKE/D repeat) (NOP68) mRNA
960	13725	26389	0.79	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26843	10.23	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3887876 5'
1691	14337	27028	3.76	1.0E-103	AF012872.1	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1907	14644	27354	1.75	1.0E-103	7657592	NT	Homo sapiens bone morphogenetic protein 8 (osteoactive protein 2) (BMP8) mRNA
1968	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteoactive protein 2) (BMP8) mRNA
1988	14704	27421	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteoactive protein 2) (BMP8) mRNA
2303	15028	27765	1.15	1.0E-103	AU134991.1	EST_HUMAN	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2452	15170	27909	1.33	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2603	15316	28055	1.23	1.0E-103	BF629378.1	EST_HUMAN	602041882F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4178429 5'
2603	15316	28056	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4178429 5'
3064	15830		2.68	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3374	16133	28789	4.1	1.0E-103	AW288245.1	EST_HUMAN	U1-H-BWO-ajh-11-0.U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	16199	28837	0.98	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3737	16490		8.55	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3774	16526	29165	1.23	1.0E-103	AA485663.1	EST_HUMAN	ab10412.e1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element;
3810	16562	29195	1.72	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
3985	16733	29387	3.47	1.0E-103	T23983.1	EST_HUMAN	seq340 b4HB3MA-Cat109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cat109+10-Bio-7 3'
5844	18632	31577	0.98	1.0E-103	BF589527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
5852	18639	31577	2.82	1.0E-103	AF176995.1	NT	Homo sapiens seplin 2 (SEP2) mRNA, partial cds
6174	18951	31923	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6174	18951	31924	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
8368	19137	32132	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
8368	19137	32133	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
8498	25092	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	aj26e03.s1 Scaree3 testis_NHT Homo sapiens cDNA clone 1391452 3'
8535	19301	32304	0.94	1.0E-103	AF053490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32398	1.48	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6747	17916	30579	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6747	17916	30580	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6935	19670	32716	0.99	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
7127	19815	32883	1.63	1.0E-103	AW965776.1	EST_HUMAN	EST377849 MAGAGE resequences, MAGI Homo sapiens cDNA
7233	19918	32890	6.93	1.0E-103	BE748158.1	EST_HUMAN	601671537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3888545 5'
7671	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
7671	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
8187	20881	34019	0.77	1.0E-103	T31080.1	EST_HUMAN	EST271683 Human Brain Homo sapiens cDNA 5' end similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8604	21296	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	7160603.x1 Scarses NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;
9005	21695	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9005	21695	34848	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9046	21736	34891	1.16	1.0E-103	AA581086.1	EST_HUMAN	nd13c02.s1 NCI_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:L02426 26S PROTEASE SUBUNIT 4 (HUMAN);
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747_cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9162	21832	34985	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-503 NN0045 Homo sapiens cDNA
9162	21832	34986	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-503 NN0045 Homo sapiens cDNA
9558	22608	35811	1.44	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-binding protein (LTBP-2)
9599	22647	35859	1.89	1.0E-103	AW963676.1	EST_HUMAN	EST375749 MAGAGE resequences, MAGI Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22789	35998	9.2	1.0E-103	AI878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518328 5' similar to TR:O15048 O15048 KIAA0338 ;
10634	23326	36563	3.66	1.0E-103	AI792769.1	EST_HUMAN	002408.y5 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1622283 5' similar to TR:Q82084 Q82084 PHOSPHOLIPASE C NEIGHBORING ;
10737	23424	36668	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10737	23424	36669	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36677	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10748	23434	36678	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10783	23476	36717	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT1/plectin-A2 protein
10783	23476	36718	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT1/plectin-A2 protein
11347	24037	37340	2.8	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11423	23190	36421	10.74	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11748	24339	37667	2.41	1.0E-103	BE644811.1	EST_HUMAN	7e88a10.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29.13 MER29 repetitive element ;
11937	24494		2.11	1.0E-103	11626291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12128	24620	31091	2.83	1.0E-103	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
227	13039	25676	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp564H1072.1_1 584 (synonym: hfb2) Homo sapiens cDNA clone DKFZp564H1072 5'
227	13039	25677	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp564H1072.1_1 584 (synonym: hfb2) Homo sapiens cDNA clone DKFZp564H1072 5'
1881	14618	27328	2.18	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2190	14919	27653	3.68	1.0E-104	AA132876.1	EST_HUMAN	zo22c08.a1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:587628 3' similar to
2201	14929	27666	2.57	1.0E-104	BE744828.1	EST_HUMAN	gbZ14116_ma1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2369	15091	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2369	15091	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2438	15158	27893	1.68	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2507	15224	27965	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2507	15224	27966	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2874	15641	28285	7.41	1.0E-104	M34871.1	NT	Human lymphocytic antigen CD59/MEIM43 mRNA, complete cds
2917	15983		2.74	1.0E-104	Y11151.1	NT	H sapiens gene encoding phenylpyruvate tautomerase II
3386	16145		2.04	1.0E-104	AA319436.1	EST_HUMAN	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3587	16341	28986	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3924	16874	29315	0.78	1.0E-104	AB032898.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4344	17083	29712	3.93	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4670	17305	29932	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4670	17305	29933	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5106	17824	30441	1.06	1.0E-104	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.28	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens eik3 mRNA for Aurora/pil-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	A1768797.1	EST_HUMAN	KIAA0132 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14146
6375	19144	32142	9.51	1.0E-104	A1768797.1	EST_HUMAN	wj03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14146
6551	19316	32322	0.75	1.0E-104	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6706	19621	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	KIAA0132 PROTEIN, contains element LTR7 repetitive element;
6706	19621	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
7125	19813	32881	2.03	1.0E-104	11425572	NT	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
8495	21187	34330	0.83	1.0E-104	BF509244.1	EST_HUMAN	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
9085	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	UI-H-B14-aow-b-09-0-J1.st NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9163	21833	34997	0.5	1.0E-104	AA682308.1	EST_HUMAN	nad16g11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3366948 3'
9184	21854		1.31	1.0E-104	TT4219.1	EST_HUMAN	zj98b05.s1 Soares_fetal_liver_spleen_1NFL5_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9214	21893	35060	4.27	1.0E-104	AF091395.1	NT	yc83102.r1 Soares Infant brain_1NIB Homo sapiens cDNA clone IMAGE:22440 5'
9214	21893	35061	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF352841.1	EST_HUMAN	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33530	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22308	35503	0.85	1.0E-104	AW103848.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22308	35504	0.86	1.0E-104	AW103848.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9847	22497	35698	0.71	1.0E-104	AF113514.1	NT	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
9893	22641	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9893	22641	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
10289	22846	36160	1.29	1.0E-104	AV728070.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10339	22866	36204	4.51	1.0E-104	AU130765.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10450	23098	36327	4.41	1.0E-104	U66535.1	NT	AV728070 HTC Homo sapiens cDNA clone NT2RP3001398 5'
10464	23110		0.92	1.0E-104	11427757	NT	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
11268	23930	37221	2.07	1.0E-104	BE720191.1	EST_HUMAN	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
							Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
							RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11268	23930	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-009 HT0885 Homo sapiens cDNA
11269	23959	37259	4.96	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302607 6'
11590	24189	37505	1.75	1.0E-104	BE731976.1	EST_HUMAN	601566800F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11590	24189	37505	1.75	1.0E-104	BE731976.1	EST_HUMAN	601566800F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11690	24189	37608	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 80kD, polypeptide 5 (RPS6KA6), mRNA
11781	24981	37712	2.38	1.0E-104	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3866876 5'
12702	24982						
272	15514	25722	11.13	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
416	12827	25440	8.99	1.0E-105	4505160	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
560	13360	25987	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
580	13360	25988	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27269	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14856	27365	1.83	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2186	14915	27648	1.29	1.0E-105	AA318369.1	EST_HUMAN	EST206009 Spleen I Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891766.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3006	15772		2.89	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3346	16105	28759	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3346	16105	28760	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4077	16821	29447	2.07	1.0E-105	AW981688.1	EST_HUMAN	EST373761 IMAGE resequences, MAGG Homo sapiens cDNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850158 5'
4694	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850158 5'
4886	17613		4.24	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5043	17782	30377	1.16	1.0E-105	AB018339.1	EST_HUMAN	Homo sapiens mRNA for KIAA0789 protein, partial cds
5091	17810	30428	0.94	1.0E-105	AW66016.1	EST_HUMAN	EST378088 IMAGE resequences, MAGI Homo sapiens cDNA
5247	18053	30681	0.96	1.0E-105	AF016704.1	NT	Homo sapiens EGAP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18116		1.07	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6804	19465	32485	2.16	1.0E-105	BF314302.1	EST_HUMAN	601601028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6804	19465	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601601028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6885	17961	30515	3.65	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30516	3.65	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	19663	32709	0.83	1.0E-105	AW951634.1	EST_HUMAN	EST383989 IMAGE resequences, MAGB Homo sapiens cDNA
7184	19870	32944	0.69	1.0E-105	BE802816.1	EST_HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:39660019 5'
7722	20368	33500	0.65	1.0E-105	6806894	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
7758	20454	33579	0.97	1.0E-105	X12556.1	NT	Human mRNA for dbl proto-oncogene

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2942	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
2942	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3178	16939	28588	2.18	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3178	16939	28589	2.18	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3367	16126	28784	0.81	1.0E-106	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16190	28838	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3434	16190	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	29391	7.95	1.0E-106	AW974850.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4017	16763	29392	7.95	1.0E-106	AW974850.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4035	16760	29410	1.05	1.0E-106	5729728	NT	Homo sapiens API5-like 1 (API5L1), mRNA
4862	17297	29924	1.4	1.0E-106	BE144286.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
5135	17853	30489	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP6, Tolloid, Sushi repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP6, Tolloid, Sushi repeat proteins
5285	18090	30750	2.61	1.0E-106	AA781155.1	EST_HUMAN	424b09.s1 Soares, testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);
5764	18555	31480	0.58	1.0E-106	AU130113	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5764	18555	31481	0.58	1.0E-106	AU130113	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5816	18605	31533	0.58	1.0E-106	AA434168.1	EST_HUMAN	zw28d12.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770615 3'
5904	18689	31637	1.3	1.0E-106	AU143428	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
5904	18689	31638	1.3	1.0E-106	AU143428	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6011	18792	31755	4.89	1.0E-106	BF678574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285067 5'
6303	18892	31860	0.77	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6325	19095	32083	17.66	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6325	19095	32084	17.66	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
7271	19555	33031	5.16	1.0E-106	AA683779.1	EST_HUMAN	ae72607.s1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7324	20007	33084	5.33	1.0E-106	11429617	NT	Homo sapiens XPMC2 protein (LOC57109), mRNA
7402	20080	33161	1.21	1.0E-106	BE292722.1	EST_HUMAN	601105736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2886345 5'
7511	20182	33275	9.29	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7511	20182	33276	9.29	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7714	20378	33491	0.97	1.0E-106	AU116850.1	EST_HUMAN	AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000128 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-108	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20579	33708	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8074	20768	33897	1.38	1.0E-108	AI523066.1	EST_HUMAN	ar08a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8527	21219	34361	0.47	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8527	21219	34362	0.47	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8607	21289	34443	3.64	1.0E-106	AI654123.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8950	21641	34788	0.58	1.0E-106	AW838831.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9046	21735	34889	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9045	21735	34890	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9186	21856	35021	1.28	1.0E-106	AI750447.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9329	21996	35169	1.8	1.0E-106	AI479569.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9329	21996	35170	1.8	1.0E-106	AI479569.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9902	22551	35748	1.19	1.0E-106	BE389234.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9984	22632	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
9984	22632	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10141	22789	36003	8.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10141	22789	36004	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10185	22833	36047	1.6	1.0E-106	AW363299.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10358	23005	36222	0.53	1.0E-106	AL039886.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10479	23125	36354	2.81	1.0E-106	AL163202.2	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10895	23668	36925	2.22	1.0E-106	JO5200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
10895	23668	36926	2.22	1.0E-106	JO5200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
11384	23991	37292	1.91	1.0E-106	BE257385.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
11532	24132	37436	1.35	1.0E-106	BE010882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
11532	24132	37437	1.35	1.0E-106	BE010882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
11981	25184		6.77	1.0E-106	AW410405.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN
12183	24694	31088	3.32	1.0E-106	BE984488.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283832 3' similar to SW:ICAE_HUMAN

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12193	24694	31089	3.32	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3018524 5'
12408	24791		4.6	1.0E-106	BE695905.1	EST_HUMAN	RC1-CT0249-090600-024-d05 CT0249 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
258	13086		1.29	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13395		4.03	1.0E-107	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
616	13394	26028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
886	13635	26305	1.52	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1255	14004	26673	0.73	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14308	26896	3.77	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120800-358-a05 HT0540 Homo sapiens cDNA
1746	14488	27187	1.55	1.0E-107	AF138275.1	NT	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1832	14571	27284	0.99	1.0E-107	AB007622.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.85	1.0E-107	U13729.1	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2362	15084	27822	1.45	1.0E-107	AW842451.1	EST_HUMAN	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2382	15084	27823	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27891	1.2	1.0E-107	BE732460.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15280	27982	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3096	15861	28502	2.63	1.0E-107	5902097	NT	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3806	16558	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SM13H2), mRNA
6537	18335	31242	0.66	1.0E-107	AW969038.1	EST_HUMAN	Homo sapiens myotubularin (MTM1) gene, exon 9
5775	18566	31495	3.2	1.0E-107	BE867469.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
6823	18484	32506	1.45	1.0E-107	11431469	NT	601442589F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6823	19484	32507	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220KD) (GTF3C1), mRNA
7263	18947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220KD) (GTF3C1), mRNA
7263	18947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	UI-HF-BN0-alf-c-08-Q-UI-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7429	20106	33183	1.46	1.0E-107	AI765078.1	EST_HUMAN	UI-HF-BN0-alf-c-08-Q-UI-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7690	20354	33499	0.6	1.0E-107	AW410961.1	EST_HUMAN	wh5h04.x1 NCI_CGAP_Kid111 Homo sapiens cDNA clone IMAGE:2384791 3'
9287	22041	35213	0.95	1.0E-107	AU122469.1	EST_HUMAN	fh09d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2864524 5'
							AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10603	23297	36537	3.18	1.0E-107	A328850.1	EST_HUMAN	ig10d08.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
10668	23546	36794	14.28	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR ; Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
10880	23660	36807	1.71	1.0E-107	BF688511.1	EST_HUMAN	602123963F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
11293	23654	37252	6.68	1.0E-107	BE540550.1	EST_HUMAN	601066681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452828 5'
11387	23178	36405	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11387	23178	36408	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37768	1.38	1.0E-107	4506870	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
11843	24427	37769	1.38	1.0E-107	4506870	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	ze45e01.s1 Scars retina N2b4HR Homo sapiens cDNA clone IMAGE:381944 3' similar to contains THR.b1 THR repetitive element ;
936	13702	26387	2.68	1.0E-108	BE288042.1	EST_HUMAN	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632348 5'
1242	13991	26657	1.87	1.0E-108	Y18000.1	NT	Homo sapiens NF2 gene
2428	15149	27893	4.97	1.0E-108	BE206694.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863899 3' similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);
3344	16103	28755	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
3344	16103	28756	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	16878	29507	1.14	1.0E-108	AW684438.1	EST_HUMAN	hi12a11.x1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872060 3' similar to SW:3BP1_MOUSE
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	P55184 SH3-BINDING PROTEIN 3BP-1 ;
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4752	17484	30113	1.74	1.0E-108	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4896	17623	30241	2.8	1.0E-108	AJ008005.1	NT	Homo sapiens PSN1 gene, alternative transcript
5391	18191	30883	1.16	1.0E-108	AW384084.1	EST_HUMAN	RCO-HT0372-241189-031-003 HT0372 Homo sapiens cDNA
5440	18239	30954	1.7	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
5440	18239	30955	1.7	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 6'
5837	18926		0.99	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6048	18828	31790	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6048	18828	31791	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6169	18946	31918	1.27	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6255	18697	31650	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-010 CT0403 Homo sapiens cDNA
6521	19287	32290	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6521	19287	32291	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7057	19748	32811	5.82	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 6, member B (GPCR5B), mRNA
7339	20020	33098	3.55	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS2D6) mRNA
7377	20057	33137	1.16	1.0E-108	BE252807.1	EST_HUMAN	601113471F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354084 5'
7405	20082	33164	0.94	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7405	20082	33165	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7963	20658	33838	1.68	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33838	0.48	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-Q-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33839	0.48	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-Q-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8945	21636	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
							y93h10.1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR445773
8984	21674	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	A45773 kelch protein, long form - fruit fly
10565	20368	33481	1.73	1.0E-108	BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445381 5'
10731	17911	30597	1.98	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Gdgl-associated microtubule-binding protein (GMAP-210)
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10988	23671	36928	1.39	1.0E-108	AF223391.1	NT	EST378268 MAGE resequences, MAGI Homo sapiens cDNA
11239	23902	37181	3.82	1.0E-108	AW966185.1	EST_HUMAN	AV708780 ADC Homo sapiens cDNA clone ADCAEE03 5'
11284	23955	37253	2.2	1.0E-108	AV708780.1	EST_HUMAN	AV708780 ADC Homo sapiens cDNA clone ADCAEE03 5'
11284	23955	37254	2.2	1.0E-108	AV708780.1	EST_HUMAN	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11343	24033		1.67	1.0E-108	11441465	NT	Homo sapiens COL4A6 gene for a(IV) collagen, exon 23
11405	24054	37359	1.68	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for a(IV) collagen, exon 23
12204	24871	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12583	24908		8.32	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4164287 5'
41	12869	25488	0.87	1.0E-109	AW803116.1	EST_HUMAN	IL2-UM0077-260400-079-D06 UM0077 Homo sapiens cDNA
62	12890	25523	0.97	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13031	25667	1.58	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
454	13240	25878	6.69	1.0E-109	4507712	NT	Homo sapiens tetrapeptide repeat domain 2 (TTC2) mRNA
584	13384	25892	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
584	13384	25903	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1180	13933	26598	10.97	1.0E-109	M26699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13933	26598	4	1.0E-109	M26699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1533	14280	26987	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1533	14280	26988	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1867	14605	27315	3.3	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0019 protein, partial cds
2237	14966	27705	1.78	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2248	14976	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2628	15340	28084	3.98	1.0E-109	A1022328.1	EST_HUMAN	TR:002197 O02197 CIRCULATING CATHODIC ANTIGEN.1
2628	15340	28085	3.98	1.0E-109	A1022328.1	EST_HUMAN	ow85a01.x1 Scores fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to
2628	15341	28086	2.07	1.0E-109	4504208	NT	TR:002197 O02197 CIRCULATING CATHODIC ANTIGEN.1
3054	15820	28464	2.22	1.0E-109	N85180.1	EST_HUMAN	TR:002197 O02197 CIRCULATING CATHODIC ANTIGEN.1
3383	16142	28789	3.14	1.0E-109	AW893192.1	EST_HUMAN	Homo sapiens quaternary cyclase activator 1A (retina) (GUCY1A) mRNA
3383	16142	28800	3.14	1.0E-109	AW893192.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC
3508	16284	28918	1.21	1.0E-109	AF240698.1	NT	FINGER PROTEIN ZNF43
3548	16303	28953	0.9	1.0E-109	M37923.1	NT	CM3-NN0009:190400-150-f10 NN0009 Homo sapiens cDNA
3548	16303	28954	0.9	1.0E-109	M37923.1	NT	CM3-NN0009:190400-150-f10 NN0009 Homo sapiens cDNA
3623	16575	29357	2.59	1.0E-109	BE146144.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3623	16575	29357	2.59	1.0E-109	BE146144.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3874	16723	29357	1.42	1.0E-109	AB011181.2	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3874	16723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
4127	16869	29497	3.88	1.0E-109	AI655417.1	EST_HUMAN	MRO-H10209-110400-108-a04 H10209 Homo sapiens cDNA
4141	16883	29512	1.02	1.0E-109	AA662274.1	EST_HUMAN	Homo sapiens mRNA for KIAA0609 protein, partial cds
4141	16883	29513	1.02	1.0E-109	AA662274.1	EST_HUMAN	Homo sapiens mRNA for KIAA0609 protein, partial cds
4371	17109	29744	2.48	1.0E-109	4504208	NT	ts98e06.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8
4561	17296	29923	1.69	1.0E-109	R15400.1	EST_HUMAN	CE18100
4867	17595	30218	1.27	1.0E-109	BE293673.1	EST_HUMAN	nu93c12.s1 NCL_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
4992	17715	30320	1.39	1.0E-109	BE293673.1	EST_HUMAN	P30712 GLUTATHIONE S-TRANSFERASE THETA 2
4992	17715	30321	1.39	1.0E-109	BE293673.1	EST_HUMAN	nu93c12.s1 NCL_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
5167	17676	30534	0.81	1.0E-109	AU137282.1	EST_HUMAN	P30712 GLUTATHIONE S-TRANSFERASE THETA 2
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	Homo sapiens quaternary cyclase activator 1A (retina) (GUCY1A) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30662	3.09	1.0E-109	5174822	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5520	18318		1.11	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0816-200400-022-d04 HT0815 Homo sapiens cDNA
5838	25078	31560	0.64	1.0E-109	BF379688.1	EST_HUMAN	CM1-UT0038-060900-399-h07 UT0038 Homo sapiens cDNA
5907	18318		1.6	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0816-200400-022-d04 HT0815 Homo sapiens cDNA
7140	18927	32899	0.97	1.0E-109	AB048811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7464	20138	33230	3.99	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7466	20140	33232	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7466	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.67	1.0E-109	BE263297.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160229 5'
8073	20767	33898	1.48	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.99	1.0E-109	AW749130.1	EST_HUMAN	PM0-BT0340-091289-002-e05 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8633	21325	34466	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
8878	21567	34711	0.56	1.0E-109	BE145672.1	EST_HUMAN	IL0-HT0205-071189-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34990	1.91	1.0E-109	H04890.1	EST_HUMAN	ys90g08.r1 Soares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21929	35101	0.63	1.0E-109	BE397068.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-C1 COTRANSPORTER - SPINY;
9250	21929	35102	0.63	1.0E-109	BE397068.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9884	22046	35218	2.64	1.0E-109	F06604.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
10673	23364	36606	1.71	1.0E-109	BE540909.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10673	23364	36607	1.71	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449569 5'
10673	23364	36608	1.71	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449569 5'
10710	23399	36638	15.79	1.0E-109	BF694831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
10888	23568	36818	1.55	1.0E-109	7682279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
10888	23568	36819	1.55	1.0E-109	7682279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.6	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11342	24032	37336	2.72	1.0E-109	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11383	23980	37291	11.8	1.0E-109	W16510.1	EST_HUMAN	z508b12.r1 Soares fetal lung Nbl-L19W Homo sapiens cDNA clone IMAGE:301439 5' similar to
11685	24280	37602	1.46	1.0E-109	11418618	NT	PIR:S43969 S43969 p54 beta stress-activated protein kinases - rat;
11848	24432	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
11848	24432	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	602039003F1 NCI_CGAP_Brm84 Homo sapiens cDNA clone IMAGE:4186753 5'
12112	14978	27714	2.1	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brm84 Homo sapiens cDNA clone IMAGE:4186753 5'
12328	14978	27714	2.73	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12443	24813	31047	2.08	1.0E-109	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.65	1.0E-110	7549804	NT	Homo sapiens deloninase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
36	12884	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12884	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12905	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC3467
107	12831	25444	2.28	1.0E-110	7549804	NT	Homo sapiens deloninase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
514	13298	25930	1.54	1.0E-110	U84550.1	NT	Human dystrobrevin (DTN) gene, exon 20
1157	13912	26575	0.8	1.0E-110	5031620	NT	Homo sapiens calcitonin receptor-like (CALORL) mRNA
1256	14005	26874	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14651	27381	1.19	1.0E-110	BE379477.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5'
2051	14784		1.6	1.0E-110	BF508896.1	EST_HUMAN	UI-H-B14-aos-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
2845	15613		1	1.0E-110	4503098	NT	Homo sapiens chondroin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3189	15952	28603	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15952	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	29407	1.09	1.0E-110	BE018558.1	EST_HUMAN	6b82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:O60312 O60312 KIAA0568 PROTEIN
4591	17328	29951	2.14	1.0E-110	A017213.1	EST_HUMAN	cu32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627883 3' similar to SW:NI21 RAT P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121
4606	17341	29972	3.9	1.0E-110	AU117812.1	EST_HUMAN	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
4916	17844		2.7	1.0E-110	7682441	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5212	18020	30642	2.63	1.0E-110	BE289408.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5639	18434	31347	0.8	1.0E-110	BE621069.1	EST_HUMAN	601493677F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3885785 5'
5656	18451	31364	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5656	18451	31365	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6817	25086	32395	8.08	1.0E-110	M55112.1	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
7002	19694	32748	0.8	1.0E-110	U08888.1	NT	Human cyclic fibroblast transmembrane conductance regulator (CFTR) gene, exon 7
7002	19694	32747	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7224	19609	32983	0.74	1.0E-110	AI560289.1	EST_HUMAN	Human GS2 gene, exon 2
7325	20003	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	In12d08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7325	20003	33086	6.9	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1
7355	20036	33114	3.21	1.0E-110	AB020875.1	NT	AV714276 DCB Homo sapiens cDNA clone DCBCGE01 6'
7469	20143	33235	0.83	1.0E-110	AU137923.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCGE01 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9234	21913	35087	7.88	1.0E-110	BE302594.1	EST_HUMAN	ba68f01.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2806561 5' similar to TR:O77258 O77258
8476	22128	35308	2.39	1.0E-110	AW838394.1	EST_HUMAN	EG:114D9.2 PROTEIN.1
10221	22869	36081	3.45	1.0E-110	11432732	NT	QV2-LT0053-020400-119-e04 LT0053 Homo sapiens cDNA
10648	23339	36578	3.64	1.0E-110	Y12337.1	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10887	23567	36816	3.75	1.0E-110	BE734357.1	EST_HUMAN	H.sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23567	36817	3.75	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							zw67g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
							G1145816 FKBP54
11420	23187	36418	2.45	1.0E-110	AA446529.1	EST_HUMAN	G1145816 FKBP54
11939	24498		4.64	1.0E-110	BE897218.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
12061	24576		11.71	1.0E-110	AW062258.1	EST_HUMAN	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
12280	24720		1.44	1.0E-110	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12346	24753		1.35	1.0E-110	A1127781.1	EST_HUMAN	qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
12429	25339		3.25	1.0E-110	BF364546.1	EST_HUMAN	PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA
12701	14784		1.45	1.0E-110	BF508896.1	EST_HUMAN	UJ-H-B14-eos-b-05-O-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
170	12983		10.84	1.0E-111	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
181	13004	25645	1.05	1.0E-111	4758807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
718	13492		2.38	1.0E-111	BF036327.1	EST_HUMAN	601458631F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 6'
726	13500	26154	5.13	1.0E-111	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
808	13673	26338	3.82	1.0E-111	M25142.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
1624	14371	27080	1.43	1.0E-111	7682177	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2234	14962	27701	1.02	1.0E-111	AF036126.1	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 28, 30, 31, and 32
4150	16892	29522	1.08	1.0E-111	7661559	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4295	17034	29682	4.38	1.0E-111	K02268.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4691	17425	30057	8.36	1.0E-111	4505778	NT	Human enkephalin B (enkb) gene, exon 4 and 3' flank and complete cds
5544	18341	31249	1.09	1.0E-111	BE867809.1	EST_HUMAN	Homo sapiens phosphatase kinase, alpha 1 (muscle) (PHKA1), mRNA
							601443660F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847655 5'
							qp09g12.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1817574 3' similar to gb:M28853 RAS-RELATED PROTEIN RAL-A (HUMAN);
5942	18724	31683	1.98	1.0E-111	A1944676.1	EST_HUMAN	DKFZP434C1815_f1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZP434C1815 5'
6580	18343	32357	1.16	1.0E-111	AL040762.1	EST_HUMAN	UI-H-BW0-ail-d-03-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2729525 3'
6709	19624	32688	1.06	1.0E-111	AW284648.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7347	20028	33104	2.99	1.0E-111	BF366228.1	EST_HUMAN	w168401.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2388465 3' similar to gb:J04813
7433	20110	33188	0.62	1.0E-111	A1761228.1	EST_HUMAN	CYTOTOCHROME P450 IIIA5 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7614	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nailp) and survival motor neuron protein (smn) genes, complete cds
7993	20688	33815	0.73	1.0E-111	AA278668.1	EST_HUMAN	zs79g03.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1266410
7993	20688	33815	0.73	1.0E-111	AA278668.1	EST_HUMAN	G1266410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
7993	20688	33815	0.73	1.0E-111	AA278668.1	EST_HUMAN	zs79g03.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1266410
8088	20782	33912	0.62	1.0E-111	11431896	NT	G1266410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8139	20833	33967	3.28	1.0E-111	U66533.1	NT	Homo sapiens protein x 0001 (LOC51185), mRNA
8579	21271	34409	0.79	1.0E-111	11420516	NT	Human beta4-integrin (ITGB4) gene, exon 13
8974	21366	34513	0.73	1.0E-111	AK024453.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8707	21399		1.57	1.0E-111	AF177987.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
8708	21400		8.65	1.0E-111	BF214902.1	EST_HUMAN	Homo sapiens cone sodium-calcium potassium exchanger splice variant (NCKX) mRNA, complete cds
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	Human mRNA for Integrin alpha-2 subunit
8966	21676	34825	2.8	1.0E-111	AF091395.1	NT	Human mRNA for Integrin alpha-2 subunit
9217	21896	36066	0.49	1.0E-111	BF333210.1	EST_HUMAN	Homo sapiens Trio isoform mRNA, complete cds
10052	22700	35917	3.21	1.0E-111	AA604160.1	EST_HUMAN	QV2-BT0817-270800-398-006 BT0817 Homo sapiens cDNA
10080	22728		2.4	1.0E-111	D10083.1	NT	ae55g02.e1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:L09235
10172	22820	36038	5.24	1.0E-111	AA131243.1	EST_HUMAN	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10973	23649	36902	4.25	1.0E-111	U68159.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
11465	24088	37376	2.74	1.0E-111	AF751071.1	EST_HUMAN	z31f01.r1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
11897	24454	37602	3.72	1.0E-111	11417901	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12424	24800	31040	1.51	1.0E-111	AV708482.1	EST_HUMAN	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07a11 random
12672	17914	30599	1.56	1.0E-111	AB033556.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
594	13372	26001	1.29	1.0E-112	4501854	NT	AV708482 ADC Homo sapiens cDNA clone ADCA0808 5'
598	13374	26003	12.55	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neurxin 1-alpha protein, complete cds
598	13374	26004	12.55	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13385	26029	1.86	1.0E-112	BF509039.1	EST_HUMAN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13385	26030	1.86	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (SAR) gene, exon 5
981	13746	26408	8.84	1.0E-112	AF157623.1	NT	Human steroidogenic acute regulatory protein (SAR) gene, exon 5
1040	13800	26458	2.2	1.0E-112	P52742	SWISSPROT	Human steroidogenic acute regulatory protein (SAR) gene, exon 5
							UI-H-B14-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							UI-H-B14-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 135

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1679	14423	27117	4.39	1.0E-112	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27118	4.39	1.0E-112	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14923	27657	1.37	1.0E-112	A176925.1	EST_HUMAN	w190f06.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400611 3'
2512	16229	27969	1.1	1.0E-112	BE866859.1	EST_HUMAN	601442874F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848858 5'
3078	15842		1.15	1.0E-112	4804118	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16115	28770	0.7	1.0E-112	A1825511.1	EST_HUMAN	wk45b12.x1 NCL CGAP_P22 Homo sapiens cDNA clone IMAGE:2418335 3' similar to gb:U91660 mat SEMNOGELIN 1 PROTEIN PRECURSOR (HUMAN);
3884	16614	29253	0.74	1.0E-112	BE078073.1	EST_HUMAN	MR2-BT0560-090300-113-09 BT0560 Homo sapiens cDNA
4555	17300	29927	1.39	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30098	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
4704	17437	30099	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5581	18378	31291	40.71	1.0E-112	N46046.1	EST_HUMAN	y635d07.r1 Scores melanocytes 2NbhM Homo sapiens cDNA clone IMAGE:273228 5'
5955	18766	31730	1.04	1.0E-112	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6155	18932	31899	1.43	1.0E-112	BE741868.1	EST_HUMAN	601594717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557 5'
6369	18138	32134	0.68	1.0E-112	BF672815.1	EST_HUMAN	802152849F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
6539	18304	32308	0.71	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508508 5'
6539	18304	32309	0.71	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508508 5'
6741	18575	32507	1.13	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7236	18921	32995	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7236	18921	32996	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7729	26120	33507	0.56	1.0E-112	BF213358.1	EST_HUMAN	601945089F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5'
8093	20787	33919	1.73	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
8556	21547	34694	2.09	1.0E-112	BE867835.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
8556	21547	34695	2.09	1.0E-112	BE867835.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
8793	22444	35849	2.15	1.0E-112	BF111413.1	EST_HUMAN	730907.x1 Scores NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to TR:Q9VW35 Q9VW35 CG8743 PROTEIN ;
10377	23368	36811	2.86	1.0E-112	AW863327.1	EST_HUMAN	MR3-SN0009-100400-108-b12 SN0009 Homo sapiens cDNA
10368	23548	36796	3.37	1.0E-112	AJ249900.1	NT	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
11040	23711	36981	1.92	1.0E-112	BE280479.1	EST_HUMAN	601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138988 5'
11109	23779	37053	1.59	1.0E-112	AJ792603.1	EST_HUMAN	qk24d08.y6 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362 FUSED TOES ;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11109	23779	37054	1.89	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q84362 Q84362 FUSED TOES:
11139	23806	37085	6.6	1.0E-112	AW377670.1	EST_HUMAN	PMO-CT0237-141099-001-h02 CT0237 Homo sapiens cDNA FUSED TOES:
11810	24399	37734	1.92	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q84362 Q84362 FUSED TOES:
11810	24399	37735	1.82	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q84362 Q84362 FUSED TOES:
725	13499	28152	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
725	13499	28153	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
921	13698	28352	7.99	1.0E-113	M11965.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1532	14279	28988	2.88	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1832	15524	27382	1.44	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-transporter mRNA, complete cds
2088	14820	27551	1.02	1.0E-113	BF615218.1	EST_HUMAN	UI-H-BW1-ant-F-03-Q-UJ.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
2456	15174	27913	26.34	1.0E-113	AJ006976.1	NT	Homo sapiens PUP gene
3127	15892	28536	1.92	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
4986	17691	30300	0.91	1.0E-113	D85006.1	NT	Homo sapiens gene for cholesteryltransferin type-A receptor, complete cds
5008	17731	30335	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5008	17731	30336	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5165	25178		2.97	1.0E-113	BE780888.1	EST_HUMAN	601468465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872538 5'
5405	18205	30909	7.66	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
5832	18621	31554	4.17	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
5861	18648	31589	1.47	1.0E-113	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
5979	18761	31725	2.62	1.0E-113	11825737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GALNT8), mRNA
6064	18843	31806	0.68	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6064	18843	31807	0.68	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6224	18998	31974	0.8	1.0E-113	6006002	NT	Homo sapiens glutathione receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6224	18998	31975	0.8	1.0E-113	6006002	NT	Homo sapiens glutathione receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7221	18906	32979	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7221	18906	32980	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7573	20242	33347	0.58	1.0E-113	AW958960.1	EST_HUMAN	EST371030 MAGE resequences, MAGE Homo sapiens cDNA
8790	21492	34629	0.46	1.0E-113	8922818	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA

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Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8992	21682	34830	3.08	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
8992	21682	34831	3.08	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9301	21688		0.93	1.0E-113	BE772867.1	EST_HUMAN	RC1-FT0134-280600-021-002 FT0134 Homo sapiens cDNA
9730	22381	35563	1.4	1.0E-113	11429387	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22481	35663	0.45	1.0E-113	M21535.1	NT	Human erg protein (eis-related gene) mRNA, complete cds
9850	22598	35802	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9850	22598	35803	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23160	36386	0.61	1.0E-113	AW500517.1	EST_HUMAN	UI-HF-BND-ak4-b-10-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10515	23161	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
10515	23161	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
11087	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	UI-HF-BND-ak4-b-12-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077328 5'
11076	23746	37019	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0364 PROTEIN;
11076	23746	37020	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0364 PROTEIN;
11181	18998	31974	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE292868.1	EST_HUMAN	601103529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988368 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1;
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1;
630	13409	26045	6.8	1.0E-114	T70551.1	EST_HUMAN	yd15c01.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1049	13808	26468	1.7	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7857528	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1667	14413	27104	4.27	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein 1 (NLP-1), mRNA
2807	12871	25491	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15883	28537	2.75	1.0E-114	X04086.1	NT	Human gene for cathepsin (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3169	15932	28581	1.02	1.0E-114	BF208374.1	EST_HUMAN	601869932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	28377	2.81	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17086	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5084	17783	30400	1.05	1.0E-114	BE275324.1	EST_HUMAN	601122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346099 5'
5315	18119	30775	1.28	1.0E-114	4508880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
6315	18119	30776	1.26	1.0E-114	4508880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
6508	18306	31207	0.97	1.0E-114	9257201	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
6134	18912	31881	0.84	1.0E-114	Z26288.1	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6898	17974	30531	0.82	1.0E-114	4759163	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6877	19458	32994	0.95	1.0E-114	AB041533.1	NT	Homo sapiens sparse/osteonectin, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
7139	19828	32894	1.02	1.0E-114	AU134187.1	EST_HUMAN	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7139	19828	32895	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7792	20487	33810	2.62	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8067	20761	33889	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8067	20761	33890	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21294	34437	3.81	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD58 mRNA, complete cds
8605	21357	34505	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0661 protein, partial cds
8605	21357	34506	6.83	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0661 protein, partial cds
9081	21770	34933	0.49	1.0E-114	BF109832.1	EST_HUMAN	7169g12.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3828847 3' similar to
9314	21981	35274	6.83	1.0E-114	AW327455.1	EST_HUMAN	TR:Q8UHN6 Q8UHN6 TRANSMEMBRANE PROTEIN 2 ;
9363	20433	33555	2.8	1.0E-114	AF077754.1	NT	dc03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9448	22125	33505	1.03	1.0E-114	M13536.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
10039	22887	35905	1.08	1.0E-114	BE870004.1	EST_HUMAN	Human ceruloplasmin mRNA
10061	22709	35927	1.5	1.0E-114	AL163227.2	NT	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10439	23085	36313	0.7	1.0E-114	BE171984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MR0-HT0559-250200-002-007 HT0559 Homo sapiens cDNA
							ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2806086 5' similar to gb:X17206 40S
							RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
10687	23378		3.15	1.0E-114	BE302866.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10789	23472	36714	1.71	1.0E-114	AF223391.1	NT	

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36716	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11788	24386	37719	1.7	1.0E-114	4758673	NT	Homo sapiens LIMHOX gene 2 (LHX2) mRNA
11834	24418	37769	1.32	1.0E-114	11528317	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), mRNA
12334	25402	30998	3.42	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902	30998	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12577	24902	30999	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
21	12849	25464	2.89	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
127	12942	26585	2.03	1.0E-115	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
131	12946	26585	2.33	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	AW804759.1	EST_HUMAN	Homo sapiens keratin 18 (KRT18) mRNA
523	13307	25939	0.99	1.0E-115	AJ339206.1	EST_HUMAN	QV4-UM0094-300300-156-508 UM0094 Homo sapiens cDNA
523	13307	25940	0.99	1.0E-115	AJ339206.1	EST_HUMAN	q0601.x1 NCL CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00538 O00536
769	13541	26201	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5;
769	13541	26202	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5;
771	13543	26204	40.4	1.0E-115	4503794	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26985	1.26	1.0E-115	AF229180.1	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26986	1.26	1.0E-115	AF229180.1	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
2078	14810	27541	0.96	1.0E-115	AB007902.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2298	15023	27758	2.13	1.0E-115	AF231124.1	EST_HUMAN	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2855	15623	28518	1.39	1.0E-115	AW804759.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
3113	15878	28519	6.22	1.0E-115	AJ245922.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
3113	15878	28519	6.22	1.0E-115	AJ245922.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
3485	16221	28875	1.6	1.0E-115	AJ277892.1	NT	Homo sapiens testican-1 mRNA, complete cds
4021	16767	29397	3.67	1.0E-115	AB002348.2	NT	Homo sapiens testican-1 mRNA, complete cds
4369	17107	29742	3.27	1.0E-115	6912659	NT	QV4-UM0094-300300-156-508 UM0094 Homo sapiens cDNA
4403	17140	29768	3.6	1.0E-115	4758279	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4628	17363	29996	2.64	1.0E-115	AL096857.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
							Homo sapiens partial TTN gene for titin
							Homo sapiens mRNA for KIAA0350 protein, partial cds
							Homo sapiens eIF2-like 3 (SIRT3), mRNA
							Homo sapiens EphA4 (EPHA4) mRNA
							Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4628	17363	29997	2.64	1.0E-115	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4848	17578	30202	3.51	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5263	18099	30698	1.82	1.0E-115	AW970395.1	EST_HUMAN	EST382410 IMAGE resequences, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665387.1	EST_HUMAN	602119348F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.86	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5454	18253	31144	1.86	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5604	18400	31313	1.34	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519558 3' similar to gbl.LO7807
5604	18400	31314	1.34	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519558 3' similar to gbl.LO7807
6168	18945	31916	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6168	18945	31917	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6302	19076	32061	9.84	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63436), mRNA
6434	19202	32198	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
6434	19202	32199	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
6835	19497	32521	0.83	1.0E-115	T86774.1	EST_HUMAN	yd6b08.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP:POG_YEAST P16801 DNA POLYMERASE GAMMA ;
7178	19864	32935	1.54	1.0E-115	AI076598.1	EST_HUMAN	oz31a08.x1 Scores total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7178	19864	32936	1.54	1.0E-115	AI076598.1	EST_HUMAN	oz31a08.x1 Scores total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7308	19991	33068	8.22	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
8060	20754	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-E T0081-130700-011-G01 ET0081 Homo sapiens cDNA
8060	20754	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-E T0081-130700-011-G01 ET0081 Homo sapiens cDNA
8712	21404	34549	2.15	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
8875	22327	35522	0.6	1.0E-115	BF382029.1	EST_HUMAN	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
8899	22549	35743	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
8899	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36284	1	1.0E-115	AI221878.1	EST_HUMAN	qg99e09.x1 Scores NFL_T GBC S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10418	23064	36285	1	1.0E-115	AI221878.1	EST_HUMAN	qg99e09.x1 Scores NFL_T GBC S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.82	1.0E-115	AI524687.1	EST_HUMAN	fh12a07.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129 PHENYLALANINE TRNA SYNTHETASE ;
10617	23310	36549	7.62	1.0E-115	AW571544.1	EST_HUMAN	x32208.x1 NCL_CGAP_UH Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA P10463 CALYPTOPHOSINE ;
10869	23549	36797	1.33	1.0E-115	8910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11225	23888	37174	1.54	1.0E-115	BE048890.1	EST_HUMAN	h954c10.x1 NCL CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123188 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11225	23888	37175	1.54	1.0E-115	BE048890.1	EST_HUMAN	h954c10.x1 NCL CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11374	23881	37281	2.27	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
11775	24368	37699	2.53	1.0E-115	BE255549.1	EST_HUMAN	60111744F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352378 5'
11842	24426	37767	1.63	1.0E-115	AW884376.1	EST_HUMAN	QV3-OT0085-280300-137-h12 OT0085 Homo sapiens cDNA
11920	24481		2.16	1.0E-115	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
559	13341	25969	1.98	1.0E-116	BE275502.1	EST_HUMAN	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2888875 5'
783	13555	26216	2.21	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
839	13609		1.76	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1890	14726	27447	2.55	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
1890	14726	27448	2.56	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
2090	15585	27552	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2090	15585	27553	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	15030	27767	1.95	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2340	15063		1.36	1.0E-116	U78308.1	NT	Human olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds
2458	16176	27915	2.84	1.0E-116	AB018333.1	NT	Homo sapiens mRNA for KIAA0780 protein, partial cds
2738	15533	28183	1.53	1.0E-116	BE889256.1	EST_HUMAN	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15534	28582	4.87	1.0E-116	L77570.1	NT	Homo sapiens DGeorge syndrome critical region, centromeric end
3171	15534	28583	4.87	1.0E-116	L77570.1	NT	Homo sapiens DGeorge syndrome critical region, centromeric end
4345	17084	28713	2.43	1.0E-116	5031954	NT	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4803	17534	30156	1.57	1.0E-116	AI807086.1	EST_HUMAN	PM-BT135-070499-016 BT135 Homo sapiens cDNA
5197	18005	30627	0.87	1.0E-116	AI302062.1	EST_HUMAN	q19d04.x1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898695 3' similar to contains element MER26 repetitive element ;
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	zc24d07.r1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6117	18895	31862	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6117	18895	31863	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6184	18961	31934	0.76	1.0E-116	BE408097.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638764 5'
6421	19189		1.55	1.0E-116	BE156133.1	EST_HUMAN	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	18544	32572	1.19	1.0E-116	Q02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH00567
7102	18780	32855	6.74	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCB0006 5'
8267	20961	34101	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8267	20961	34102	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8378	21071	34209	0.98	1.0E-116	AI904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
8838	21928	34674	1.86	1.0E-116	BE585507.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680880 5'
8997	21987	34837	1.61	1.0E-116	AI216352.1	EST_HUMAN	qp08c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gp.X63741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
8973	22228	35411	1.52	1.0E-116	11418846	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36036	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10170	22818	36037	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10246	22894	36104	0.78	1.0E-116	BE158913.1	EST_HUMAN	QV4-HT0401-281289-063-c09 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-116	BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-e08 CT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-116	AB97140.1	EST_HUMAN	qq41e04.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1835102 3' similar to WP-B0495.7
12625	25267		1.86	1.0E-116	AL134899.1	EST_HUMAN	CE01765;
545	13328	25959	1.67	1.0E-117	4826836	NT	DKFZp762L1110_1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5'
1055	15559	26474	0.96	1.0E-117	AF124393.1	NT	Homo sapiens acyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1747	14489	27188	1.02	1.0E-117	AF123320.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1) gene, exons 13a through 15
1823	14562	27274	1.51	1.0E-117	M19816.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
2208	14936	27674	1.54	1.0E-117	AW957689.1	EST_HUMAN	Human apolipoprotein B-100 (apoB) gene, exon 10
3262	16024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	EST369769 MAGE resequences, MAGE Homo sapiens cDNA
3971	18720	29355	2.1	1.0E-117	AA316723.1	EST_HUMAN	qp32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
4310	17049	29874	2.03	1.0E-117	8659564	NT	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4538	17273	29905	2.95	1.0E-117	AL042120.1	EST_HUMAN	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4674	17408	30043	1.27	1.0E-117	X89670.1	NT	DKFZp434C1120_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1120 5'
4674	17408	30044	1.27	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4758	17491	30119	10.03	1.0E-117	AF134304.2	NT	H. sapiens mRNA for TPCR16 protein
4758	17491	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4897	17614	30233	3.57	1.0E-117	AB020673.1	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
5136	17854	30471	0.73	1.0E-117	6912461	NT	Homo sapiens mRNA for KIAA0886 protein, complete cds
5264	18070	30699	3.01	1.0E-117	BE730508.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA

Table 4

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6860	17637	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST26111 Cerebellum II Homo sapiens cDNA 5' end similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7350	20031	33109	6.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7446	20122	33212	1.76	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
							wp86b07.x1 NCLCGAP_Bm25 Homo sapiens cDNA clone IMAGE:2488629 3' similar to TR:O76085
							O76085 KIAA0477 PROTEIN ;
7878	20573	33699	3.38	1.0E-117	AI850145.1	EST_HUMAN	Homo sapiens KIAA0477 protein, partial cds
8210	20904	34039	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8210	20904	34040	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	AI804161.1	EST_HUMAN	CMA-BT043-090299-075 BT043 Homo sapiens cDNA
8310	21004	34142	0.56	1.0E-117	AI804161.1	EST_HUMAN	CMA-BT043-090299-075 BT043 Homo sapiens cDNA
9199	21868	35033	2.25	1.0E-117	D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
9686	22338	35532	2.07	1.0E-117	BE733922.1	EST_HUMAN	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
9846	25127	35697	2.9	1.0E-117	AF099033.1	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10469	23115	36346	1.11	1.0E-117	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10765	23449	36691	1.77	1.0E-117	D83776.1	NT	Human mRNA for KIAA0191 gene, partial cds
10984	23640	36891	2.88	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
10964	23640	36892	2.68	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37196	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11243	23905	37197	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11369	23976		14.73	1.0E-117	BE269856.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3544288 5'
11587	24186	37501	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCA1), member 3 (ABCA3), mRNA
11587	24186	37502	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCA1), member 3 (ABCA3), mRNA
68	12886	25530	5.98	1.0E-118	AF161500.1	EST_HUMAN	Homo sapiens HSPC151 mRNA, complete cds
94	12920	25557	2.13	1.0E-118	AL045854.1	EST_HUMAN	DKFZp434i056_l1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434i058 5'
504	13288	25922	5.67	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (D328E19.C1.1), mRNA
894	15555	26328	0.66	1.0E-118	5174680	NT	Homo sapiens alpha oculis homedbox (Drosophila) homolog 1 (SIX1) mRNA
2227	14955	27693	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2227	14955	27694	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2329	15054		1.68	1.0E-118	AW951729.1	EST_HUMAN	EST363799 MAGE resequencing, MAGE Homo sapiens cDNA
2744	15450	28189	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2744	15450	28190	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	15867		4.64	1.0E-118	Y13932.1	NT	Homo sapiens PRKY exon 7

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28605	4.67	1.0E-118	A1347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28608	4.67	1.0E-118	A1347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
4087	16811	29439	4.77	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
4659	17393	30028	0.9	1.0E-118	11425793	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30800	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5337	18140	30801	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5543	18340	31248	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5684	18477	31395	1.24	1.0E-118	M55109.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5772	18563	31491	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18640	31492	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18640	31578	1.49	1.0E-118	11420764	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6592	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6592	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6997	19689	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFP434O0127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFP434O0127 5'
6997	19689	32739	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFP434O0127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFP434O0127 5'
7500	20172	33284	5.83	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7733	20397	33512	0.86	1.0E-118	BF685272.1	EST_HUMAN	602141620F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
7872	20567	33693	2.17	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5'
8282	20976	34116	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8282	20976	34117	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8288	20982	34122	1.37	1.0E-118	AA443024.1	EST_HUMAN	z68d07.r1 Soares_NH-MP_u_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	z68d07.r1 Soares_NH-MP_u_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8573	21265	34404	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8573	21265	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8933	21624	34797	4.95	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160302 5'
8964	21655	34806	0.55	1.0E-118	AL049474.2	EST_HUMAN	DKFP434O0127_r1 434 (synonym: htsr1) Homo sapiens cDNA clone DKFP434O0127 5'
9493	22146	35327	1.53	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
9886	22536	35731	0.98	1.0E-118	AL138321.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3584785 3' similar to SW:ZP3A_HUMAN
10274	22922	36134	1.88	1.0E-118	BF106407.1	EST_HUMAN	P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10365	23012	36227	0.46	1.0E-118	AW271289.1	EST_HUMAN	xs46a10.x1 NCL CGAP Kid11 Homo sapiens cDNA IMAGE:2772668 3' similar to
10431	23077	36300	0.65	1.0E-118	AW296351.1	EST_HUMAN	SW:BODG_HUMAN 076938 GAMMA-BUTYROBETAINE-2-OXOGLUTARATE DIOXYGENASE ;
11206	23869	37165	1.61	1.0E-118	BF685214.1	EST_HUMAN	UI-H-BW0-alo-a-07-0-J1 s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2728772 3'
11236	23899	37188	1.8	1.0E-118	11055968	NT	602141628F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302798 5'
11246	23908	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	Homo sapiens protein with polyglutamine repeat; calcium (ca2+) homeostasis endoplasmic reticulum protein (ERPROT213-21), mRNA
11548	24147	37457	1.68	1.0E-118	BE908676.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to dynein, light chain 1, cytoplasmic
11548	24147	37458	1.68	1.0E-118	BE908676.1	EST_HUMAN	601498514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24160	37461	1.61	1.0E-118	BF093687.1	EST_HUMAN	601498514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37462	1.61	1.0E-118	BF093687.1	EST_HUMAN	QVO-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	13514	26173	0.97	1.0E-119	AF170492.1	NT	QVO-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
1014	15558	26433	1.61	1.0E-119	7705607	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
1926	14692	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens CGI-105 protein (LOC51011), mRNA
3099	15864	28508	1.57	1.0E-119	8922205	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3234	15998		0.8	1.0E-119	AA916760.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3934	16684	26325	1.42	1.0E-119	4504116	NT	on10b06.s1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F6.2
5253	18059	30688	2.5	1.0E-119	AU133399.1	EST_HUMAN	CE01214 ;
5266	18072	30701	21.82	1.0E-119	M89914.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5270	18076	30708	3.11	1.0E-119	BE936121.1	EST_HUMAN	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001891 5'
5347	18160	30830	1.63	1.0E-119	AV693731.1	EST_HUMAN	Human neurofibromin (NF1) gene, complete cds
5503	18301	31201	0.63	1.0E-119	AL134903.1	EST_HUMAN	RC1-NIN0073-250800-018-g06 NN0073 Homo sapiens cDNA
5503	18301	31202	0.63	1.0E-119	AL134903.1	EST_HUMAN	AV693731 GKC Homo sapiens cDNA clone GKCDBH03 5'
6036	18816	31776	7.67	1.0E-119	AI150703.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31940	0.92	1.0E-119	AF315683.1	NT	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31941	0.92	1.0E-119	AF315683.1	NT	q677c09.x1 Soares_fetal_heart_NH-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to
6239	19013	31987	0.85	1.0E-119	AI476732.1	EST_HUMAN	SW:K1CJ_MOUSE P02635 KERATIN, TYPE I CYTOSKELETAL 10 ;
6370	19139	32135	2.92	1.0E-119	X06292.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6380	19149	32148	4.69	1.0E-119	AW974193.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
7310	19993	33070	1.5	1.0E-119	BE796614.1	EST_HUMAN	hm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
8560	21252	34390	1.19	1.0E-119	BE615150.1	EST_HUMAN	Human c-fos/fps proto-oncogene
						EST_HUMAN	EST386296 IMAGE resequences, MAGM Homo sapiens cDNA
						EST_HUMAN	601692006F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
						EST_HUMAN	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622528 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22458	35663	1.16	1.0E-119	11036643	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10008	22654	35867	0.55	1.0E-119	AI149796.1	EST_HUMAN	q143a11.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1762764 3' similar to TR-Q13458
10146	22794	36008	3.35	1.0E-119	AA465124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO. ;
10401	23047	36283	1.29	1.0E-119	AJ297701.1	NT	aa32105.r1 NCL CGAP_G081 Homo sapiens cDNA clone IMAGE:814977 5'
10443	23089	36317	0.71	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10443	23089	36318	0.71	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA
10517	23163	36390	4.16	1.0E-119	AB032261.1	NT	Homo sapiens Scd mRNA for stearoyl-CoA desaturase, complete cds
10985	23680	36913	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10985	23680	36914	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11159	23826		6.31	1.0E-119	BF589571.1	EST_HUMAN	602166072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
12198	25326		2.16	1.0E-119	AW847519.1	EST_HUMAN	RC3-CT0212-240899-011-103 CT0212 Homo sapiens cDNA
284	13100	25741	1.43	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1018	13778	26439	2.49	1.0E-120	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1018	13778	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1405	14162	26832	2.31	1.0E-120	N44873.1	EST_HUMAN	yy40g12.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:273766 5'
1597	14343	27033	3.08	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1799	14539	27250	1.21	1.0E-120	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2100	14831	27565	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2100	14831	27566	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2531	15247	27985	5.24	1.0E-120	4755124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3302	13100	25741	1.59	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4325	17064	29692	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4325	17064	29693	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	29983	2.22	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
4614	17349	29984	2.22	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
5065	17784	30401	1.36	1.0E-120	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5133	17851	30468	0.9	1.0E-120	AI190903.1	EST_HUMAN	qd61103.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
5849	18444	31357	16.61	1.0E-120	BF588222.1	EST_HUMAN	602163904F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5849	18444	31358	16.61	1.0E-120	BF588222.1	EST_HUMAN	602163904F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
7795	20490	33612	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20490	33613	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8230	20824	34063	2.43	1.0E-120	BF337698.1	EST_HUMAN	60203532F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4163333 5'
8303	20897	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20897	34136	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34139	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8352	21045	34182	1.17	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
9401	22083	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9401	22083	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9645	22297	35492	3.75	1.0E-120	BF306541.1	EST_HUMAN	601688956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
9660	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9677	22329	35926	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9782	22443		0.54	1.0E-120	AI904151.1	EST_HUMAN	CM-BT043-080299-075 BT043 Homo sapiens cDNA
9876	22824	35931	2.55	1.0E-120	AB028000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE266387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11316	24007	37311	2.06	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11650	24247	37567	1.38	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
71	12888	25534	1.08	1.0E-121	Y16000.1	NT	Homo sapiens NF2 gene
369	13165	25608	0.83	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000889 5'
707	15549	26130	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1568	14315	27001	2.81	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14694	27407	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
1958	14694	27408	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
1964	14700	27415	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
1864	14700	27416	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
2095	14826	27559	1.51	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15844	28486	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3079	15844	28487	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3525	16281	28936	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	28937	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3666	16419	29080	7.35	1.0E-121	AF155166.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4286	17035	28663	2	1.0E-121	A1263294.1	EST_HUMAN	qp57b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4919	17647	30259	3.24	1.0E-121	X91837.1	NT	H sapiens ECE-1 gene (exon 17)
5188	17994	30510	0.97	1.0E-121	BE222250.1	EST_HUMAN	h009f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3186119 3'
5474	18273	31167	0.85	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6524	18280	32294	0.91	1.0E-121	M81463.1	NT	Human glucose transporter (GLUT4) gene, complete cds
6788	18532		0.68	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudocautosomal region; segment 2/2
6866	17943	30537	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0068-270400-011-402 NN0068 Homo sapiens cDNA
6868	17943	30538	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0068-270400-011-402 NN0068 Homo sapiens cDNA
7838	20533	33660	2.11	1.0E-121	11436217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
7842	20537	33664	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
7842	20537	33665	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
9768	22409	35615	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O76457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
9768	22409	35618	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O76457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
10675	23366	36609	2.95	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
10683	23374	36618	1.28	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
10888	23569	36820	3.46	1.0E-121	7330394	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
10917	23597	36844	2.53	1.0E-121	NS9624.1	EST_HUMAN	y74201.st Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248448 3'
11309	23988	37269	2.83	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA100638 5'
261	13089	25707	2.28	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
327	13128	25763	2.63	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
348	13147	25787	2.14	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
862	13631	28302	3.99	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1188	13950	26614	4.29	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22-4) variable region (subgroup V kappa II)
1688	14432	27128	1.28	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1707	14450	27150	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1707	14460	27151	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1807	14547	27262	4.54	1.0E-122	BE906024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898368 5'
2495	15212	27854	6.21	1.0E-122	BF316170.1	EST_HUMAN	601886173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2495	15212	27955	5.21	1.0E-122	BF316170.1	EST_HUMAN	601898173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	16012	28260	1.41	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4795	17526	30148	5.04	1.0E-122	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nadn-11, Alzheimer disease) (APP), mRNA
4930	17658		1.46	1.0E-122	AW504043.1	EST_HUMAN	UHF-BNO-all-a-03-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078948 5'
5478	18276	31170	1.38	1.0E-122	BE256039.1	EST_HUMAN	601113587F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6658	18275	31170	7.1	1.0E-122	BE256039.1	EST_HUMAN	601113587F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7113	19801	32885	0.73	1.0E-122	AA888871.1	EST_HUMAN	ak49h06.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'
8895	21387	34530	0.65	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
8926	21817	34781	1.21	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9223	21902	35073	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
9223	21902	35074	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
10034	22892	35899	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dcl (proto-oncogene)
10908	23588	36834	2.17	1.0E-122	AW958834.1	EST_HUMAN	EST367904 IMAGE resequences, MAGD Homo sapiens cDNA
11368	24046	37349	1.88	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
11998	24509		6.6	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
751	13523	26181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
751	13523	26182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
992	13764	26415	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1001	13761	26422	2.6	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1210	13968	26634	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1216	13968	26635	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	26871	0.91	1.0E-123	AJ388841.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705862	NT	Homo sapiens RAB9-like protein (LOC51209), mRNA
3245	16007	28657	0.95	1.0E-123	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (GPCT), mRNA
5361	18163	30847	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5361	18163	30848	1.58	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds
5494	18293	31191	1.62	1.0E-123	BE799746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6377	19146	32145	2.59	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
6905	19843	32688	1.2	1.0E-123	H53198.1	EST_HUMAN	y84a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:202444 5' similar to 5P:YAK1_YEAST P14680 PROTEIN KINASE YAK1 ;
6915	19652	32698	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7094	19783	32849	2.87	1.0E-123	U55258.1	NT	Human HBRVONIR-CAM precursor (HBRVONIR-CAM) gene, complete cds
7302	19885	33061	1.62	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosaminide) 3-O-sulfotransferase 2 (HSST2), mRNA
7642	20212	33312	1.3	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7651	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3609162 5'
7816	20511	33836	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7816	20511	33837	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126		1.13	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-251189-012-a07 BT0311 Homo sapiens cDNA
9269	22023	35193	2.43	1.0E-123	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9405	22067	35239	15.48	1.0E-123	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelfaz) mRNA, complete cds
11720	24314	37637	4.68	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.68	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13076		2.99	1.0E-124	DB7676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13259	25898	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26092	2.68	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
675	13450	26093	2.68	1.0E-124	AA397551.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
742	13515	26174	7.84	1.0E-124	AF155854.1	NT	z81b04.r1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
790	13562	26223	1.61	1.0E-124	4507500	NT	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
884	13653	26321	1.94	1.0E-124	7705446	NT	Human putative ribosomal protein S1 mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypothetical protein (HSPC088), mRNA
1808	14548	27263	2.29	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14768	27512	3.05	1.0E-124	BE879524.1	EST_HUMAN	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
3358	16118	28774	0.85	1.0E-124	4504116	NT	Homo sapiens mRNA for nuclear RNA-helicase (nrl61 gene)
							601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28895	1.25	1.0E-124	S76684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28896	1.25	1.0E-124	S76684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3640	16393	29033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
3680	16630	29269	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4058	16801	29432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4698	17430	30061	1.94	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
4881	17608		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5216	18023	30647	12.12	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300). mRNA
5586	18383	31293	0.92	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5797	18988	31514	6.94	1.0E-124	BF686135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18858	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone CuAADF07 5'
6339	19109	32089	0.98	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
6912	19649	32695	2.95	1.0E-124	Y11717.1	NT	M. musculus mRNA for hoxa3 gene
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2866885 5'
7037	19729	32787	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2866885 5'
7452	20128	33220	0.92	1.0E-124	AA630331.1	EST_HUMAN	ac08h05.e1 Stratagene HeLa cell c3 937216 Homo sapiens cDNA clone IMAGE:865897 3'
8156	20850	33982	8.07	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94e09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;
8362	21055	34196	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94e09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;
8060	21749	34907	0.61	1.0E-124	AI798884.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
8060	21749	34908	0.61	1.0E-124	AI798884.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
8390	22052	35223	2.31	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
8390	22052	35224	2.31	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
8477	22130	35309	0.62	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8477	22130	35310	0.52	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8508	22161	35342	7.57	1.0E-124	AI767133.1	EST_HUMAN	wi93f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
8508	22161	35343	7.57	1.0E-124	AI767133.1	EST_HUMAN	wi93f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	UI-HF-BN0-akz-b-04-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
10804	23487		1.44	1.0E-124	11432087	NT	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
10976	23652	36905	1.61	1.0E-124	U94776.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11306	23864	37265	3.51	1.0E-124	AW656863.1	EST_HUMAN	h005c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2880808 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11452	23219	36452	3	1.0E-124	AI449455.1	EST_HUMAN	U19003.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 O31682 YKRS PROTEIN.;
11462	23219	36453	3	1.0E-124	AI449455.1	EST_HUMAN	U19003.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 O31682 YKRS PROTEIN.;
12029	13450	28092	4.1	1.0E-124	AA397551.1	EST_HUMAN	Z18104.r1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12029	13450	28093	4.1	1.0E-124	AA397551.1	EST_HUMAN	Z18104.r1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12454	24823	31026	1.81	1.0E-124	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12706	25279	30728	1.44	1.0E-124	11417862	NT	Homo sapiens calneurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calneurin binding protein 1 (KIAA0330), mRNA
146	12961	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	U19003.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELLIN IA;
146	12961	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	U19003.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELLIN IA;
311	13115	25604	5.49	1.0E-125	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12928	25441	5.47	1.0E-125	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3926686 5'
628	13408	26043	1.18	1.0E-125	AI110856.1	EST_HUMAN	HA0088 Human fetal liver cDNA library Homo sapiens cDNA
629	13408	26044	1.18	1.0E-125	AI110656.1	EST_HUMAN	HA0088 Human fetal liver cDNA library Homo sapiens cDNA
711	13485	26134	1.56	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.29	1.0E-125	AA042813.1	EST_HUMAN	Z45307.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
978	13743	26405	1.22	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1131	13887	26545	1.76	1.0E-125	7562279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1968	15575	27105	0.89	1.0E-125	7661867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1793	14533	27242	0.91	1.0E-125	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27256	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1804	14544	27259	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2368	15080	27816	1.68	1.0E-125	AA011278.1	EST_HUMAN	Z01908.r1 Soares_fetal_liver_spleen_TNFSL S1 Homo sapiens cDNA clone IMAGE:429668 5'
2508	15225	27967	0.99	1.0E-125	AA042813.1	EST_HUMAN	Z45307.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2804	15317	28057	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
2804	15317	28058	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3009	17874	28425	0.84	1.0E-125	BE018009.1	EST_HUMAN	bb74f06.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:Q95604 Q95604 ZINC FINGER PROTEIN.
3839	18590	29228	0.92	1.0E-125	AA042813.1	EST_HUMAN	gb:X65857.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857.1 cdsl OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
4513	17248	29883	2.09	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4513	17248	29884	2.09	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4971	12981	25603	1.48	1.0E-125	BE219510.1	EST_HUMAN	hV59a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177888 3' similar to TR:Q25058 Q25058 FIBROPELLEIN IA.
4971	12961	25604	1.48	1.0E-125	BE219510.1	EST_HUMAN	hV59a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177888 3' similar to TR:Q25058 Q25058 FIBROPELLEIN IA.
5783	18574	31503	3.16	1.0E-125	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
5802	18592	31517	0.91	1.0E-125	BE175169.1	EST_HUMAN	QV2-HT0577-010500-185-506 HT0577 Homo sapiens cDNA
5842	18630	31565	3.76	1.0E-125	BE892660.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'
5884	18670	31811	0.74	1.0E-125	AI679904.1	EST_HUMAN	tu67c07.x1 NCL_CGAP_Gae4 Homo sapiens cDNA clone IMAGE:2258108 3' similar to WP:C45G9.2
6188	18965	31938	0.8	1.0E-125	BE736056.1	EST_HUMAN	CE01854;
6486	19253	32253	1.63	1.0E-125	BE582526.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
6486	19263	32254	1.53	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6961	19443	32460	5.26	1.0E-125	X03427.1	NT	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689780 5'
6961	19443	32460	5.26	1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
7706	20370	33483	0.55	1.0E-125	BE515100.1	EST_HUMAN	Homo sapiens IGF-II gene, exon 5
8444	21136	34273	0.99	1.0E-125	U90288.1	NT	601236183F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608084 5'
8444	21136	34274	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9016	21708	34856	6.83	1.0E-125	BE181840.1	EST_HUMAN	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9016	21708	34857	6.83	1.0E-125	BE181840.1	EST_HUMAN	QV1-HT0638-070500-191-412 HT0638 Homo sapiens cDNA
9281	22035	35207	0.96	1.0E-125	AI565996.1	EST_HUMAN	QV1-HT0638-070500-191-412 HT0638 Homo sapiens cDNA
10350	22997	38215	0.53	1.0E-125	BE794576.1	EST_HUMAN	h52b03.x1 NCL_CGAP_K411 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089 HYPOTHETICAL PROTEIN
10391	23037	36253	1.08	1.0E-125	AB002298.1	NT	601590345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944531 5'
10581	23276	36514	3.23	1.0E-125	AF043458.1	NT	Human mRNA for KIAA0300 gene, partial cds
10758	23443	36888	1.61	1.0E-125	11425570	NT	Homo sapiens L-REL gene, exon 5
11081	23751	37026	3.94	1.0E-125	AB014597.1	NT	Homo sapiens tyrosine receptor 1 (skeletal) (RYR1), mRNA
							Homo sapiens mRNA for KIAA0667 protein, partial cds

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11259	23921	37213	1.74	1.0E-126	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-126	AF026029.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11377	23984	37284	1.92	1.0E-126	AW812899.1	EST_HUMAN	RC3-S.T0186-250200-018-c11 ST0186 Homo sapiens cDNA
11486	24087	37397	3.58	1.0E-126	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
11488	24087	37398	3.58	1.0E-126	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
757	13529	26189	1.46	1.0E-126	4758007	NT	Homo sapiens CDC-like kinase (CLK) mRNA
809	13667	26331	1.46	1.0E-126	X68735.1	NT	H. sapiens gene for alpha1-antichymotrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2805	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3059	15835		0.72	1.0E-126	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15836	28479	7.54	1.0E-126	AA160709.1	EST_HUMAN	Homo sapiens pancreas (#337208) Homo sapiens cDNA clone IMAGE:592420 5'
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (#337208) Homo sapiens cDNA clone IMAGE:592420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.8	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4763	17515	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	YK78c08.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:267850 5'
5078	17797	30413	0.81	1.0E-126	BE743922.1	EST_HUMAN	601677981.F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'
5616	18412	31325	0.68	1.0E-126	T66998.1	EST_HUMAN	y052b12.s1 Soares fetal liver spleen TNF1S Homo sapiens cDNA clone IMAGE:66527 3'
6139	18917	31887	3.22	1.0E-126	AA460075.1	EST_HUMAN	z066e03.r1 Soares, fetal, testis_N62HIF8_9w Homo sapiens cDNA clone IMAGE:786444 5' similar to
6197	18973	31949	4.2	1.0E-126	AB040958.1	NT	TR:G1145880 G1145880 TITIN ;
6197	18973	31950	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7602	20268	33375	0.92	1.0E-126	AU136463.1	EST_HUMAN	Homo sapiens PLAGE1 Homo sapiens cDNA clone PLACE1004325 5'
7655	20319	33428	0.89	1.0E-126	A1806483.1	EST_HUMAN	wf08f01.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to
7778	20473	33598	0.76	1.0E-126	AB037715.1	NT	SW:MPP2_HUMAN Q14168 MAGUK P65 SUBFAMILY MEMBER 2 ;
7778	20473	33597	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7887	20882	33711	2.55	1.0E-126	X16609.1	NT	Homo sapiens mRNA for ankyrin (variant 2.1)
8083	20777	33907	0.99	1.0E-126	AA483368.1	EST_HUMAN	ne74b12.s1 NCI_QGAP_Ew1 Homo sapiens cDNA clone IMAGE:908983 similar to SW:TSG8_HUMAN
9896	22346	35539	0.87	1.0E-126	4505424	NT	P98086 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR ;
							Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA

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10693	23384	36624	1.27	1.0E-126	M93196.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10766	23450	36692	2.36	1.0E-126	BF683175.1	EST_HUMAN	60213973BF1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4288240 5'
11601	24102	37414	6.47	1.0E-126	BE261660.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12490	17797	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
168	12982	25622	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	25623	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13076	25716	3.54	1.0E-127	D87676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
267	13076	25717	3.54	1.0E-127	D87676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
881	13630	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
896	13664	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1686	14430	27126	1.08	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2058	14790	27515	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2058	14790	27516	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2197	14926	27661	6.02	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L28 (RPL28) mRNA
2341	15064	27801	2.73	1.0E-127	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2614	15325	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cycleralin 18
2626	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
2626	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
							au80a06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to
							TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-I-RELATED PROTEIN ;contains element MER22
3791	16543	29178	1.21	1.0E-127	AW161297.1	EST_HUMAN	repetitive element ;
4096	16838	29495	0.7	1.0E-127	AF135186.1	NT	Homo sapiens delayed rectifier potassium channel subunit isK mRNA, complete cds
4227	16968	29592	23.74	1.0E-127	7708239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4227	16968	29593	23.74	1.0E-127	7708239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4462	17198	29824	0.94	1.0E-127	AF252287.1	NT	Homo sapiens cytochrome P450 retinoid metabolizing protein P450RAL-2 mRNA, complete cds
4564	17299	29926	4.35	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4590	17325		1.92	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4625	17360	29993	1.26	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18418	31329	1.37	1.0E-127	W03547.1	EST_HUMAN	za01a10.r1 Soares melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:291258 5' similar to SW:PIP6_RAT P10888 1-PHOSPHATIDYLINOSITOL-4,6-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5650	18445	31359	2.4	1.0E-127	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31428	4.25	1.0E-127	X85764.1	NT	H. sapiens NOS2 gene, exon 6
6070	18849	31813	2.17	1.0E-127	X84060.1	NT	H. sapiens TCF11 gene, exon 3-6
6229	19003	31879	5.28	1.0E-127	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
6660	19325	32332	0.89	1.0E-127	11421595	NT	Homo sapiens reelin (RELN) mRNA
6962	19444	32481	0.81	1.0E-127	4828977	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33481	1.65	1.0E-127	11421814	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33482	1.65	1.0E-127	11421814	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7691	20355	33470	0.64	1.0E-127	AW696292.1	EST_HUMAN	QV3-BN0048-150300-121-h11 BN0048 Homo sapiens cDNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8785	21477	34628	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9540	22193	35377	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22193	35378	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	A1288932.1	EST_HUMAN	qme4h09.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 88 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11107	23777	37051	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 88 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11627	24224	37546	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 6'
11627	24224	37547	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 6'
12244	12982	25622	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12244	12982	25623	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	24814	31048	2.88	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
447	13233	25873	3.04	1.0E-128	BE385617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 6'
2063	14795	27520	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2063	14795	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2206	14934	27872	8.78	1.0E-128	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2446	15165		1.1	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4616	17351	28988	6.14	1.0E-128	11426673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5458	18257	31147	0.7	1.0E-128	X09539.1	NT	H sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
5886	18672	31613	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929097 5'
5886	18672	31614	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929097 5'
6324	19094	32082	2.58	1.0E-128	11420968	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6831	19493	32316	6.9	1.0E-128	BF224345.1	EST_HUMAN	7q86b10.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3905794 5'
7327	20010	33089	0.62	1.0E-128	BE614105.1	EST_HUMAN	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7692	20356	33471	0.67	1.0E-128	11546023	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8448	21138	34276	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22685	35903	1.63	1.0E-128	AA639198.1	EST_HUMAN	ins04a11.1 NCL CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338
10608	23302	36541	3.52	1.0E-128	11425254	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS. ;
10618	23311	36550	3.21	1.0E-128	AA926959.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
10689	23390	36628	1.35	1.0E-128	AJ252060.1	NT	om88a08.s1 NCL CGAP_GC4 Homo sapiens cDNA clone IMAGE:1652383 3' similar to gb:U54941 CYCLIN-
10761	23445	36689	1.4	1.0E-128	BE384475.1	EST_HUMAN	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
12117	24610	26839	7.02	1.0E-128	AW955280.1	EST_HUMAN	Homo sapiens mRNA for TRABID protein (TRABID gene)
118	13189	26839	1.33	1.0E-128	S37722.1	NT	601277826F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618750 5'
404	13189	26839	1.19	1.0E-128	S37722.1	NT	EST367360 MAGIE resequences, MAGC Homo sapiens cDNA
1713	14456	27154	2.73	1.0E-128	AL098880.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1717	14460	27158	1.57	1.0E-128	AF240786.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1717	14460	27159	1.57	1.0E-128	AF240786.1	NT	Noval human mRNA containing Zinc finger C2H2 type domains
1838	14576	27289	2.78	1.0E-128	Q14585	SWISSPROT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
3125	15890	28531	1.21	1.0E-128	Q14585	SWISSPROT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
3125	15890	28532	1.21	1.0E-128	Q14585	SWISSPROT	genes, complete cds
3125	15890	28533	1.21	1.0E-128	Q14585	SWISSPROT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
4143	16885	28516	1.94	1.0E-128	AB040892.1	NT	ZINC FINGER PROTEIN HZF10
4247	16988	28611	2.26	1.0E-128	AW755254.1	EST_HUMAN	ZINC FINGER PROTEIN HZF10
4247	16988	28612	2.26	1.0E-128	AW755254.1	EST_HUMAN	ZINC FINGER PROTEIN HZF10

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18761	31742	3.73	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6816	19477	32499	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
6816	19477	32499	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
6816	19477	32499	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
7027	19719	32776	4.15	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
7090	19779	32844	3.93	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7428	20105	33191	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911	33192	3.94	1.0E-129	AB014534.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
9979	22627	35835	0.97	1.0E-129	11437282	NT	Homo sapiens WSCR4 gene, exons 3 and 4
9979	22627	35836	0.97	1.0E-129	11437282	NT	Homo sapiens WSCR4 gene, exons 3 and 4
10523	23169	36396	0.57	1.0E-129	AA682200.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1186	23851	37137	4	1.0E-129	AA625526.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1186	19779	32844	6.57	1.0E-129	11420850	NT	Homo sapiens WSCR4 gene, exons 3 and 4
1186	24213	37637	1.38	1.0E-129	AU143115.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1186	24213	37637	1.38	1.0E-129	AU143115.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
12104	24601		1.79	1.0E-129	H83155.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
12493	24842		2.66	1.0E-129	AL120739.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
74	12901	25538	1.3	1.0E-130	7705530	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
1147	13902	26564	0.69	1.0E-130	AB037835.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1681	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1681	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA0634 protein, partial cds
1976	14712		3.09	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2773	15478		5.37	1.0E-130	AJ010230.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2881	16648	28290	1.17	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2881	16648	28291	1.17	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3565	16320	28968	1.09	1.0E-130	AF240698.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15848	28290	5.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15848	28291	5.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3915	16666	29305	1.92	1.0E-130	AW603580.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4053	16768	29428	1.5	1.0E-130	M97710.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4501	17237	29869	6.76	1.0E-130	AW843993.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
5038	17757	30371	1.07	1.0E-130	AW363299.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
5038	17757	30372	1.07	1.0E-130	AW363299.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6629	19391	32405	0.55	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (Vil.1)
6723	19557	32587	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6736	19570	32802	0.75	1.0E-130	11425448	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	19841	32910	2.62	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC9A7), mRNA
8582	21274		0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
8718	21410	34553	2.39	1.0E-130	AW956242.1	EST_HUMAN	EST368312 IMAGE sequences, MAGD Homo sapiens cDNA
9114	21802	34987	1.84	1.0E-130	AB037768.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22484		1.25	1.0E-130	AW103454.1	EST_HUMAN	xd36e06.x1 NCI CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'
10463	23109	36340	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
11242	23904	37184	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23904	37185	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24298	37624	2.67	1.0E-130	4804142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
12759	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228126.1	EST_HUMAN	zr58c04.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	12832	25446	1.9	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XI COLLAGEN ;
7	12834	25449	1.02	0.0E+00	4865136	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
14	12841	25454	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25462	6.7	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
20	12848	25463	6.7	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
25	12853	25468	17.04	0.0E+00	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
33	12861	25478	1.19	0.0E+00	5802997	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
35	12863	25481	0.82	0.0E+00	M58600.1	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
39	12867	25486	4.22	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
55	12884	25512	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
55	12884	25513	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
56	12885	25514	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiiwara) Homo sapiens cDNA clone GEN:516H08 5'
56	12885	25515	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiiwara) Homo sapiens cDNA clone GEN:516H08 5'
57	12886	25516	5.76	0.0E+00	L16558.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HEMSC_cr48e07 3'
59	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HEMSC_cr48e07 3'
63	12891	25524	1.5	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893		0.91	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25536	10.38	0.0E+00	4759977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4759977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25536	10.18	0.0E+00	4759977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4759977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25644	0.78	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amilin odase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
81	12907		15.25	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRP A1) mRNA
80	12916	25553	17.68	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
83	12919	25566	23.28	0.0E+00	U99277.1	NT	Human polyhomeoto 1 homolog (HPHY) mRNA, partial cds
89	12925	25562	3.51	0.0E+00	A114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X91213.1	NT	H. sapiens nct1 gene (exon 2)
113	12935	25572	0.89	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR. ;
114	12935	25572	1.47	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR. ;
115	15513	25573	1.48	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
115	15513	25574	1.48	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25586	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
128	12943	25587	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
136	12950	25593	1.29	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
136	12950	25594	1.29	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937206) Homo sapiens cDNA clone IMAGE:68310 5'
149	12964		8.88	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRP A1) mRNA
153	12968	25609	2.1	0.0E+00	BF036881.1	EST_HUMAN	G01460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863803 5'
155	12970		25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRP A1) mRNA
158	12973	25612	1	0.0E+00	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
160	12975	25613	1.15	0.0E+00	BE295973.1	EST_HUMAN	G01174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528864 5'
161	12975	25613	0.88	0.0E+00	BE295973.1	EST_HUMAN	G01174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528864 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	zdb2b05.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to qb:X16292_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
163	12977	25615	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
163	12977	25616	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
164	12978	25617	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
167	12981	25620	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
167	12981	25621	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12988	25627	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631;
176	12988	25628	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631;
181	12993	25631	3.05	0.0E+00	AB018927.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12993	25632	3.05	0.0E+00	AB018927.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
189	13002	25643	67.77	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGP8) pseudogene
194	13007	25648	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
194	13007	25649	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
196	13009	25651	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
198	13009	25652	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25658	9.26	0.0E+00	AI597308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN I (HUMAN);
205	15537	25659	9.26	0.0E+00	AI597308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN I (HUMAN);
207	13019	25661	3.08	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021		23.37	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022		4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25664	8.19	0.0E+00	AB018264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
215	13026	25664	8.34	0.0E+00	AB018264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25665	3.5	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tepyl), mRNA
229	13041	25678	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
229	13041	25679	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
231	13042	25682	3.97	0.0E+00	6458305	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
233	13044		6.94	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25688	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25691	1.71	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
250	13059		9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

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Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51290), mRNA
276	13083		1.19	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
277	13084	25728	3.28	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
278	13095		0.78	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
287	13093	25734	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13093	25735	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13103	25744	4.97	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
288	13104	25745	4.63	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
289	15540		4.23	0.0E+00	4505728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
300	13105		3.78	0.0E+00	AA480002.1	EST_HUMAN	zvl8c06.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:763994 5'
301	13106	25746	18.93	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13108	25748	16.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
306	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
319	13122	25769	4.97	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25769	6.23	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
335	13136	25771	2.68	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homologue), translocated to, 4 (MLLT4) mRNA
338	13139	25775	1.71	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
341	13142	25780	1.45	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	15541	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
354	13152	25793	1.9	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
356	13154	25795	1.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
378	13203	25849	8.31	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
379	13204	25850	1.54	0.0E+00	A1363014.1	EST_HUMAN	qy61h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:X54189
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN); RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
386	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13174	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
390	13176	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
391	13177	25823	0.84	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25824	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25825	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25824	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25825	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
397	13182	25435	28.13	0.0E+00	4506808	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
411	12822	25435	1.5	0.0E+00	R17795.1	EST_HUMAN	yg09a02.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31652 5'
419	13205	25851	1.31	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylamidazole synthetase (GART) mRNA
420	13206	25852	3.18	0.0E+00	4508728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
421	13207	25852	3.93	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
422	13208	25853	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
422	13208	25854	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
423	13209	25855	4.02	0.0E+00	AF193807.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
433	13219	25865	1.99	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
438	13224	25865	2.01	0.0E+00	AA324282.1	EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
439	13225	25879	0.97	0.0E+00	BE254447.1	EST_HUMAN	60111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3362348 5'
465	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
465	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25888	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
461	13246	25889	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
471	13257	25895	2.64	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25896	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25897	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
481	13268	25902	3.46	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
483	13268	25904	1.97	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
491	13278	25910	2.66	0.0E+00	BE385144.1	EST_HUMAN	60127495F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615768 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
492	15543	25911	1.11	0.0E+00	AW838825.1	EST_HUMAN	PMO-DT0085-130400-002-c08 DT0085 Homo sapiens cDNA
494	13278	25913	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
495	13279	25914	1.27	0.0E+00	8923855	NT	Homo sapiens PC328 protein (PC328), mRNA
499	13283		0.77	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
508	13290	25924	5.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
513	15544	25928	1.28	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0535-160400-142-h05 BT0535 Homo sapiens cDNA
518	13302	25934	1.14	0.0E+00	BF028005.1	EST_HUMAN	601784858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3986988 5'
624	13308	25941	1.68	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
527	13311	25944	27.68	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCCEB1L) mRNA
528	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
628	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	13314	25948	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
530	13314	25949	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
							Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
536	13318		5.82	0.0E+00	AF003528.1	NT	UI-H-B11-acb-h-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
543	13326	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
553	13336		8	0.0E+00	D10083.1	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA
572	13353	25982	2.63	0.0E+00	5174742	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
586	13365		7	0.0E+00	J04066.1	NT	Homo sapiens cDNA clone IMAGE:4045447 5'
588	13368	25995	1.83	0.0E+00	BF104898.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
590	13370	25998	0.98	0.0E+00	8923831	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8923831	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
596	13373	26002	0.76	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smed- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smed- and Olf-interacting zinc finger protein mRNA, partial cds
609	13387	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
612	13390	26021	1.2	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13399	26034	1.36	0.0E+00	AA399480.1	EST_HUMAN	zif0c07.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:726732 5'
624	13403	26038	10.1	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	26041	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	26042	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885528	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	26054	2.88	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	26057	1.17	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
643	13422	26061	2.53	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
647	13426	26064	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13426	26065	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
653	13431	26070	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	26071	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	16547		1.16	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
667	13443	26084	10.4	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	26088	4.49	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13456	26101	2.43	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
693	13468	26115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np48d01.s1 NCL CGAP_Br1.1 Homo sapiens cDNA clone IMAGE:1128633 3' similar to gb:X57352
696	13471	26119	4.34	0.0E+00	M60675.1	NT	INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
696	13471	26120	4.34	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
706	13481	26129	1.71	0.0E+00	5032192	NT	Human von Willebrand factor gene, exons 23 through 34
712	13486	26135	4.95	0.0E+00	AF264750.1	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	26136	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	26139	12.29	0.0E+00	11545800	NT	Homo sapiens ALR-like protein mRNA, partial cds
719	13493	26146	2.12	0.0E+00	BE241577.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
739	13512	26170	1.07	0.0E+00	AF226990.2	NT	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	26171	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	26172	2.41	0.0E+00	AF170492.1	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
743	13516	26175	1.07	0.0E+00	J03764.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
743	13516	26176	1.07	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	13519	26177	1.38	0.0E+00	6912749	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
748	15551	26179	1.86	0.0E+00	D30612.1	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
749	13521	26190	3.01	0.0E+00	BE869735.1	EST_HUMAN	Homo sapiens mRNA for repressor protein, partial cds
							601445547F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
762	13524	26183	3.51	0.0E+00	R48915.1	EST_HUMAN	y69g08.r1 Scores breast 2NtHBat Homo sapiens cDNA clone IMAGE:154046 5'
763	13529	26184	2.4	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
761	13533	26192	2.07	0.0E+00	AB011389.1	NT	Homo sapiens gene for AF-6, complete cds
764	13537	26196	2.34	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
775	13547	26209	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
788	13560	26222	9.88	0.0E+00	6174478	NT	Homo sapiens pericentrin (PCNT) mRNA
789	13561		11.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.96	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
806	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26245	2.81	0.0E+00	4557888	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26252	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.58	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26275	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
835	13605	26276	6.56	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	13607	26278	0.8	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
842	13612	26283	2.46	0.0E+00	AA633272.1	EST_HUMAN	n166d07.s1 NCI CGAP P10 Homo sapiens cDNA clone IMAGE:897453
842	13612	26284	2.45	0.0E+00	AA633272.1	EST_HUMAN	n166d07.s1 NCI CGAP P10 Homo sapiens cDNA clone IMAGE:897453
843	13613		9.44	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
847	13617	26286	1.94	0.0E+00	7667213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7667213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7667213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7667213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
878	13647	26318	2.67	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
878	13647	26317	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
888	13657	26326	6.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
898	13666		4.99	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (87kD, ribosomal protein SA) (LAMR1), mRNA
900	13666		8.49	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (87kD, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
902	13669	26333	1.78	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
905	13672	26336	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
905	13672	26337	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13693	26356	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
926	13693	26357	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
931	13696	26362	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
932	13699	26363	9.95	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
933	13700	26364	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26365	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
942	15556	26373	3.38	0.0E+00	AJ001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
942	15556	26374	3.38	0.0E+00	AJ001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
943	13709	26375	9.49	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Msk2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
964	13719	26395	3.18	0.0E+00	AB030566.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26391	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26392	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
963	13728	26394	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
963	13728	26395	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
972	13737	26402	2.03	0.0E+00	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL), mRNA
984	13748	26410	1.66	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
985	13749	26411	50.9	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	26411	25.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		5.52	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
990	13752		8.64	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
993	13755	26416	1.17	0.0E+00	AF11170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
994	13755	26416	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
995	13755	26416	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
996	13756	26417	3.76	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
998	13759	26420	3.06	0.0E+00	7661685	NT	Homo sapiens DKFZP566M0122 protein (DKFZP566M0122), mRNA
1003	13763	26424	2.5	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (IMMT), mRNA
1004	13784		1.43	0.0E+00	AA458680.1	EST_HUMAN	aa88g07.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRSB_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST51124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	26429	1.9	0.0E+00	N43182.1	EST_HUMAN	EST51124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1010	13770	26445	3.55	0.0E+00	8922933	NT	Homo sapiens hypothetical protein FLJ111186 (FLJ11186), mRNA
1025	13785	26460	2.49	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein 9B (hsc70) (HSPA9B), mRNA
1043	13802	26461	1.89	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1043	13802	26461	1.89	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1047	13806	26485	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	26485	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	26467	119.02	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1050	13809		1.19	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1052	13811	26471	3.52	0.0E+00	6174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1060	13818	26480	2.3	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3), mRNA
1074	13832	26490	2.2	0.0E+00	BE005208.1	EST_HUMAN	MRO-BN0115-200300-003-H08 BN0115 Homo sapiens cDNA
1097	13855	26514	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1097	13855	26515	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 8 (KCNK8), mRNA
1110	13867	26526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
1110	13867	26527	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
1111	13868	26527	4.27	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A), mRNA
1113	13870	26529	0.96	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1116	13873	26532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1118	13875	26533	44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1119	13876	26534	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1119	13876	26535	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	26637	1.1	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
1123	13879	26638	0.87	0.0E+00	X56826.1	NT	H. sapiens ART4 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No:	Top Hit Database Source	Top Hit Descriptor
1123	13879	26539	0.87	0.0E+00	X85928.1	NT	H. sapiens ART4 gene
1124	13880	26540	0.92	0.0E+00	AI147850.1	EST_HUMAN	qb22d10.x1 Soares_pregnant_uterus_NaHPU Homo sapiens cDNA clone IMAGE:1697011 3'
1126	13882	26542	1.56	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13889	26548	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	26549	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	26550	1.39	0.0E+00	9958844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	26561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	26562	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD26, mRNA
1148	13903	26566	1.85	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1155	13910	26574	0.75	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	26583	4.54	0.0E+00	AF034996.1	NT	Homo sapiens amphipysin 1 mRNA, alternative splice isoform, complete cds
1187	13939	26617	1.52	0.0E+00	7657336	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1201	13953	26617	1.7	0.0E+00	8922693	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26620	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26621	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13957	26622	1.77	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1208	15662	26623	1.53	0.0E+00	AF264750.1	NT	Homo sapiens chromosome 3 subtelomeric region
1224	13974	26646	9.12	0.0E+00	AF109718.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1225	13975	26647	1.71	0.0E+00	4503098	NT	Homo sapiens NF2 gene
1243	13992	26667	2.33	0.0E+00	Y18000.1	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1261	14000	26667	23.59	0.0E+00	4506718	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1261	14000	26667	23.59	0.0E+00	4506718	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1266	14007	26676	3.07	0.0E+00	AF084479.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1265	14014	26681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1266	14014	26682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1277	14027	26695	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26696	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26697	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1278	14028	26709	3.78	0.0E+00	AF096156.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1286	15584	26709	1.93	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1288	15584	26710	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1293	14042	26715	2.03	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNFG), mRNA
1294	14043	26716	0.89	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1296	14045	26717	1.12	0.0E+00	5803146	NT	Homo sapiens zinc finger protein 9 (RNFG), mRNA
1297	14046	26718	0.72	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1299	14048	26720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14049	26721	2.04	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	26722	6.88	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26723	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1302	14051	26724	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14062	26737	1.82	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1387	14134	26809	1.38	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyld gene
1393	14140	26817	3.39	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
1396	14143	26821	1.59	0.0E+00	AI208756.1	EST_HUMAN	gg38b06.x1 Sources_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5 CE14213 ;
1397	14144	26822	13.21	0.0E+00	6042206	NT	RAN, member RAS oncogene familyHomo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	26833	5	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1406	14153	26834	5	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14155	26837	4.08	0.0E+00	7705665	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1408	14155	26838	4.08	0.0E+00	7705665	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	26839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1420	14168	26852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-6glucosyltransferase (alpha1-6FUCT) gene, exon 7
1431	14178	26863	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1431	14178	26864	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1436	14183	26868	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1436	14183	26869	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1446	14193	26876	2.59	0.0E+00	AL132999.1	NT	Novel human gene on chromosome 20
1447	14194	26877	1.82	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1451	14198	26882	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	14201	26885	4.53	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1456	14203	26887	1.55	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1456	14203	26888	1.55	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	26893	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1460	14207	26894	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1500	14246	26932	1.37	0.0E+00	7706434	NT	Homo sapiens hHDC for homolog of Drosophila headcase (LOC51696), mRNA
1516	14263	26949	1.21	0.0E+00	AW959687.1	EST_HUMAN	EST371767 MAGE resequences, MAGF Homo sapiens cDNA
1517	14264	26950	1.76	0.0E+00	AA481172.1	EST_HUMAN	aa34ad03.1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1522	14269	26953	49.82	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1522	14269	26954	49.82	0.0E+00	AF023860.1	NT	Carcopithecus aethiops cyclophilin A mRNA, complete cds
1524	14271	26957	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST3388206 MAGE resequences, MAGN Homo sapiens cDNA
1524	14271	26958	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST3388206 MAGE resequences, MAGN Homo sapiens cDNA
1525	14272	26959	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1528	14275	26962	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1528	14275	26963	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26965	3.3	0.0E+00	7662405	NT	Homo sapiens KIAA0857 protein (KIAA0857), mRNA
1531	14278		7.29	0.0E+00	7666972	NT	Homo sapiens TNF-Inducible protein CG12-1 (CG12-1), mRNA
1537	14284	26971	1.84	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26973	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1540	14287	26974	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		11.72	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1542	14288	26976	11.72	0.0E+00	M14199.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14300	26988	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1553	14300	26989	2.88	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26990	11.7	0.0E+00	4503098	NT	Homo sapiens chondrolectin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	human c-yes-2 gene
1574	14321	27007	1.65	0.0E+00	Z83738.1	NT	H. sapiens h12B/e gene
1575	14322	27008	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14322	27009	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GK Homo sapiens cDNA clone GKCB0F02 5'
1576	14323	27011	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GK Homo sapiens cDNA clone GKCB0F02 5'
1579	15573	27014	9.86	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1583	14329	27016	1.63	0.0E+00	AF157478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14331	27018	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1585	14331	27019	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27020	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1587	14333	27021	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1589	14335	27023	7.94	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1604	14360	27039	6.85	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Scores adult brain N2b4-HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1614	14361	27051	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1614	14361	27052	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1659	14405	27095	1.25	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1659	14405	27095	1.25	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2/HIS2 ZINC FINGER PROTEIN. ;
1664	14410	27101	1.2	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1665	14411	27102	2.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1669	14414	27106	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1669	14414	27107	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.6	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1677	14421	27116	3.24	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutylic acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NBH8st Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27122	1.32	0.0E+00	Z80780.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1685	14429	27133	13.71	0.0E+00	5031748	NT	H. sapiens H2B/h gene
1693	14437	27136	1.11	0.0E+00	AF169963.1	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1695	14438	27136	3.53	0.0E+00	8923841	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1702	14445	27145	1.11	0.0E+00	4826973	NT	Homo sapiens FOXJ2 forthead factor (LOC55810), mRNA
1708	14451	27162	4.08	0.0E+00	AB026542.1	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM7A1) mRNA
1710	14453	27167	2.19	0.0E+00	S94400.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1725	15577	27167	1.16	0.0E+00	11545911	NT	TOR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1739	14481	27181	1.93	0.0E+00	AF273841.1	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1778	15578	27228	6.86	0.0E+00	4506718	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1782	14523	27228	3.37	0.0E+00	4557555	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1782	14523	27229	3.37	0.0E+00	4557555	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1784	14525	27232	1.42	0.0E+00	U63963.1	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1787	14528		1.2	0.0E+00	W76571.1	EST_HUMAN	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
							zdf6g09.r1 Soares_fetal_NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1788	14578	27236	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NIASP) mRNA
1800	14540	27251	5.68	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27254	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27256	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27257	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1812	14552	27266	1.63	0.0E+00	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1826	14565	27276	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1826	14565	27277	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1836	14576	27287	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14576	27288	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27290	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27291	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14579	27292	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14579	27293	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27296	1.46	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-f07-q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-f07-q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1868	14606	27316	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14824	27334	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-b04 BN0126 Homo sapiens cDNA
1916	14853	27362	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14853	27363	2.16	0.0E+00	4506384	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1924	14651		1.22	0.0E+00	AF157476.1	NT	Human transglutaminase mRNA, complete cds
1925	15582	27372	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1925	15582	27373	1.19	0.0E+00	M98478.1	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14666	27380	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14666	27381	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1933	14668	27383	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14870		4.27	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14876		1.35	0.0E+00	M55632.1	NT	Human topoisomerase I pseudogene 1
1949	14884	27396	1.84	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1949	14894	27397	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1959	14695		1.15	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1961	14697	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB) mRNA
1961	14697	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB) mRNA
1962	14698	27412	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14698	27413	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14709	27427	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0780 protein, partial cds
1973	14709	27428	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0780 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1981	14717	27434	1.57	0.0E+00	AW193024.1	EST_HUMAN	xi69b01.x1 NCJ CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1981	14717	27435	1.57	0.0E+00	AW193024.1	EST_HUMAN	xi69b01.x1 NCJ CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1982	14718	27436	5.98	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
1982	14718	27437	5.98	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
1984	14720	27439	2	0.0E+00	7662096	NT	Homo sapiens KIAA0408 gene product (KIAA0408) mRNA
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1986	14722	27441	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27442	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1993	14729	27451	3.75	0.0E+00	AB040948.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27476	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27477	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2046	14778	27507	1.64	0.0E+00	7708742	NT	Homo sapiens TP53TG3a (TP53TG3a) mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	Homo sapiens TP53TG3a (TP53TG3a) mRNA
2053	14155	26837	1.55	0.0E+00	7705565	NT	AUT40831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2053	14155	26838	1.55	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114) mRNA
2055	14787	27513	2.04	0.0E+00	AA077689.1	EST_HUMAN	Homo sapiens KIAA1114 protein (KIAA1114) mRNA
2055	14787	27514	2.04	0.0E+00	AA077689.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2057	14789		2.41	0.0E+00	7657468	NT	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2059	14791		1.91	0.0E+00	4585863	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1) mRNA
2060	14792	27517	0.97	0.0E+00	742399.1	EST_HUMAN	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A) mRNA
							HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database Source	Top Hit Descriptor
2092	14794		1.78	0.0E+00	AI244247.1	q160708.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element;
2097	14799	27526	3.48	0.0E+00	BE877225.1	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2099	14801	27528	1.48	0.0E+00	BF315325.1	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2099	14801	27529	1.48	0.0E+00	BF315325.1	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2072	14804	27532	3.07	0.0E+00	BE697125.1	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2072	14804	27533	3.07	0.0E+00	BE697125.1	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2080	14812	27544	3.71	0.0E+00	L00620.1	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2080	14812	27545	3.71	0.0E+00	L00620.1	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2085	14817	27549	1.38	0.0E+00	4758489	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2107	14838		2.08	0.0E+00	BE787894.1	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA
2108	14839		1.59	0.0E+00	AF018983.1	Homo sapiens X-linked juvenile retinoschisis protein (XLR51) gene, exon 8 and complete cds
2110	14841	27572	3.76	0.0E+00	BF027662.1	601872066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2111	14842	27573	1.03	0.0E+00	BE072624.1	PMO-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.08	0.0E+00	AF240788.1	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27576	1.3	0.0E+00	AW752708.1	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76627.1	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2119	14850	27579	6.39	0.0E+00	AI804640.1	QV-BT065-020389-092 BT065 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	AI804640.1	QV-BT065-020389-092 BT065 Homo sapiens cDNA
2163	14883		1.05	0.0E+00	7657252	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA
2179	14908		1.22	0.0E+00	L14787.1	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.05	0.0E+00	BE274698.1	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	AV738288 CB Homo sapiens cDNA clone CBNDE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	AV738288 CB Homo sapiens cDNA clone CBNDE08 5'
2187	14916	27650	1.4	0.0E+00	AA931691.1	cc32a01.st NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1667888 3'
2181	14920	27654	5.68	0.0E+00	BF344434.1	602014828F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4160734 5'
2192	14921	27655	12.14	0.0E+00	BE748899.1	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2198	14925	27659	3.55	0.0E+00	BF377897.1	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2198	14925	27660	3.55	0.0E+00	BF377897.1	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2200	15588	27665	2.04	0.0E+00	BF313617.1	601900281F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	bb84a02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2204	14932	27669		1.65	AA042813.1	EST_HUMAN	z63c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X68867_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670		1.55	AA042813.1	EST_HUMAN	z63c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X68867_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678		3.37	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679		3.37	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680		2.3	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2213	14941	27681		2.3	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2218	14946			1.37	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2236	14964	27704		5.71	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27709		2.03	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2260	14978	27717		1.71	BE895281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3818607 5'
2263	14981	27720		1.27	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2263	14981	27721		1.27	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2263	14981	27722		1.27	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2266	14983	27723		2.35	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2269	15024	27759		4.02	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2299	15024	27760		4.02	A1076404.1	EST_HUMAN	cc09c07.x1 Soares_fetal_liver_spleen_INFL3_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2300	15025	27761		1.87	AA429001.1	EST_HUMAN	z178a11.1 Soares_fetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:769740 5'
2302	15027	27763		2.33	AA429001.1	EST_HUMAN	z178a11.1 Soares_fetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:769740 5'
2302	15027	27764		2.33	BF347039.1	EST_HUMAN	602021846F1 NCJ_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4157339 5'
2304	15029	27766		1.75	0.0E+00	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2309	15034	27772		1.52	L02840.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27773		1.61	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774		1.61	AB020717.1	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2311	15036	27776		1.39	6325466	NT	7122a02.x1 NCJ_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR:O94939 O94939
2317	15042	27780		1.17	BE676095.1	EST_HUMAN	KIAA0857 PROTEIN;
2320	15045	27782		4.73	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783		1.9	A1625542.1	EST_HUMAN	y57c08.x1 NCJ_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785		1.88	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2325	15050	27786		1.88	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2328	15053	27789		1.95	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790		1.95	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793		1.24	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2334	15058	27704	1.24	0.0E+00	7682007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	5174878	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2353	15075		4.31	0.0E+00	BE794026.1	EST_HUMAN	601586843F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15076	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-120400-002-e04 SN0033 Homo sapiens cDNA
2355	15077	27813	2.98	0.0E+00	7682017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2356	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2357	15079		5.25	0.0E+00	AF280107.1	NT	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27817	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27818	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15082	27820	0.98	0.0E+00	8923089	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15099		0.91	0.0E+00	BE814424.1	EST_HUMAN	MRO-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA
2415	15138	27872	1.06	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2416	15137		3.74	0.0E+00	AI042035.1	EST_HUMAN	ox60b02-x1 Soarea_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1660683 3' similar to TR:008662
2417	15138	27873	0.98	0.0E+00	8923620	NT	Homo sapiens hypothetical protein FLJ20693 (FLJ20693), mRNA
2420	15141		4.44	0.0E+00	BE895605.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2424	15145	27878	1	0.0E+00	BE937632.1	EST_HUMAN	MR1-TN0021-280800-001-h08 TN0021 Homo sapiens cDNA
2433	15154		0.98	0.0E+00	AB005622.1	EST_HUMAN	AB005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2437	15157	27892	4.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2441	15160	27896	2.09	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2441	15160	27897	2.09	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2449	15168	27906	1.91	0.0E+00	AF106276.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2454	15172	27911	1.22	0.0E+00	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Bn87 Homo sapiens cDNA clone IMAGE:4153670 5'
2461	15179	27919	4.45	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2465	15183	27922	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2465	15183	27923	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27927	0.93	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2470	15188	27928	0.93	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.68	0.0E+00	BF569144.1	EST_HUMAN	602184568F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2618	15329	28072	2.08	0.0E+00	AI571737.1	EST_HUMAN	tn1808.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb:L20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN (ISOFORM 2 (HUMAN)).
2619	15330	28073	2.19	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF2i) mRNA
2621	15333	28077	4.95	0.0E+00	AB037858.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2622	15334	28078	1.02	0.0E+00	BE785445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE785445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2625	15337	28080	2.65	0.0E+00	BE293328.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2632	15344		4.92	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2641	15352	28098	1.51	0.0E+00	4504886	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2651	15361		1.27	0.0E+00	U76027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2658	15368	28106	1.22	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2659	15369	28107	1.08	0.0E+00	M69225.1	NT	Human bulbus pemphigoid antigen (BPAG1) mRNA, complete cds
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	RG1-OT0086-220300-011-407 OT0086 Homo sapiens cDNA
2666	15376	28115	1.25	0.0E+00	BF000018.1	EST_HUMAN	7115h05.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:3316089 3'
2667	15377	28116	4.37	0.0E+00	BE383165.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2668	15378		2.57	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810267 5'
2725	15432		4.21	0.0E+00	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2726	15433	28169	5.57	0.0E+00	BE704884.1	EST_HUMAN	601598825F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2732	15439	28177	3.83	0.0E+00	U36253.1	NT	Human beta-prime-adeptin (BAM22) gene, exon 5
2733	15440	28178	1.33	0.0E+00	7695817	NT	Human beta-prime-adeptin (BAM22) gene, exon 5
2734	15441	28178	1.78	0.0E+00	AF110763.1	NT	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDF, mRNA
2736	15443	28181	1.27	0.0E+00	AB051826.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2742	15448	28187	7.77	0.0E+00	BE796376.1	EST_HUMAN	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2745	15604	28191	3.48	0.0E+00	BE563433.1	EST_HUMAN	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	601591891F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3689504 5'
2748	15453	28194	2.25	0.0E+00	5174483	NT	601334485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689504 5'
2748	15453	28195	2.25	0.0E+00	5174483	NT	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2749	15454	28196	1.21	0.0E+00	8923441	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF290193.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2751	15456		13.89	0.0E+00	AV651066.1	EST_HUMAN	AV651066 GLC Homo sapiens cDNA clone GLCCLD07 3'
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2752	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2756	15461	28203	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2756	15461	28204	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2760	15465	28209	2.58	0.0E+00	BE747193.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3829472 5'
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2772	15477	28219	3.36	0.0E+00	BF514110.1	EST_HUMAN	UJ-H-BW1-armw-e-07-QJLs1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2778	15483		0.99	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15489	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2784	15489	28228	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2785	15490	28229	4.67	0.0E+00	BF577694.1	EST_HUMAN	602085576F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
2791	15498	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2794	15499	28239	13.66	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 6'
2794	15499	28240	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2798	15501		7.81	0.0E+00	A1879183.1	EST_HUMAN	au55d04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to
2799	15504	28245	5.41	0.0E+00	BF530661.1	EST_HUMAN	SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A ;
2800	15505	28246	5.55	0.0E+00	BE872768.1	EST_HUMAN	602071957F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4214679 5'
2802	15507	28247	1.6	0.0E+00	AU131494.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3894842 5'
2802	15507	28248	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002872 5'
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002872 5'
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860806 5'
2809	12895	25634	4.22	0.0E+00	S76830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2812	15515		4.35	0.0E+00	AB033281.1	NT	Homo sapiens BTROP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	26144	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2818	13491	26145	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	26436	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2822	13776	26437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF086924.1	NT	Homo sapiens 6-aminolevulinatase synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040900.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2849	15617	28263	2.81	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2862	15620	28266	2.83	0.0E+00	M91803.1	NT	Homo sodium channel mRNA
2854	15622	28267	1.94	0.0E+00	M80902.1	NT	Human AHNAC nucleoprotein mRNA, 5' end
2857	15625	28269	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2857	15625	28270	1.28	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	X73428.1	NT	H. sapiens lds gene for HLH type transcription factor
2860	15628		2.99	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2868	15633	28277	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2868	15633	28278	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15636	28281	1.99	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10558.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens protobactherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2872	15639	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28292	2.36	0.0E+00	4507280	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2885	15652	28298	1.08	0.0E+00	AL047599.1	EST_HUMAN	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2886	15653	28297	0.97	0.0E+00	7661883	NT	DKFZp586G0021_r1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586G0021
2886	15653	28298	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2886	15653	28298	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2887	15654		2.88	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28300	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2890	15657	28301	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2897	15664	28313	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2905	15671		4.18	0.0E+00	Y19210.1	NT	Homo sapiens hrb5 gene for hair keratin, exons 1 to 9
2907	15673	28321	1.33	0.0E+00	4758278	NT	Homo sapiens EphA4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2908	15675	28323	1.91	0.0E+00	AI661002.1	EST_HUMAN	h18d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247 O16247 F44E7.2 PROTEIN.:

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2909	15675	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	tn18d07.x1 NCL_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2911	15677	28326	1.63	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
2912	15678	28327	2.01	0.0E+00	AF152338.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2928	15694	28339	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2928	15694	28340	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2929	15695	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1608 protein, partial cds
2929	15695	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2932	15698	28345	3.58	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2932	15698	28346	3.58	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2933	15699	28347	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
2933	15699	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
2938	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	7n40403.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
2938	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	Q9VLN1 CG17283 PROTEIN ;
2946	15712	28364	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2946	15712	28365	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2953	15719	28370	1.69	0.0E+00	4758927	NT	Homo sapiens neuroxin III (NFXN3) mRNA
2954	15720		0.96	0.0E+00	X08494.1	NT	H.sapiens mRNA for M phase phosphoprotein 10
2957	15723	28373	2.38	0.0E+00	AB033034.1	NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
2958	15724	28374	5.56	0.0E+00	X15309.1	NT	H.sapiens NF-H gene, exon 4
2958	15724	28375	5.56	0.0E+00	X15309.1	NT	H.sapiens NF-H gene, exon 4
2959	15725	28376	7.64	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2973	15739		1.13	0.0E+00	AI149880.1	EST_HUMAN	qf43f09.x1 Soares_balis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2980	15746	28394	1.12	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2981	15747	28395	2.85	0.0E+00	AB004884.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2981	15757	28404	1.52	0.0E+00	7682273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
2993	15759	28406	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2993	15759	28407	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2997	15763	28412	1.1	0.0E+00	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
3026	15791	28439	1.17	0.0E+00	M74099.1	NT	Human displacement protein (CCAAT) mRNA

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							Homo sapiens semenogelin I (SEMG1) mRNA
3033	15789	28445	0.71	0.0E+00	4506882	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds.
3039	15805		4.62	0.0E+00	AF195963.1	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3042	15808	28454	3.74	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3042	15808	28455	3.74	0.0E+00	5579469	NT	isoform 2 of a novel human mRNA from chromosome 22
3044	15810		5.88	0.0E+00	AL359403.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3049	15815	28460	1.6	0.0E+00	AF017493.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α
							Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3052	15818		1.98	0.0E+00	AF198779.1	NT	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3066	15832	28475	1.19	0.0E+00	AF170492.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3074	15840	28483	2.8	0.0E+00	X03529.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3080	15845		1.64	0.0E+00	AF199355.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3084	15849	28490	1.72	0.0E+00	AF064589.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3104	15869	28509	3.2	0.0E+00	AF265208.1	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3105	15870	28510	7.83	0.0E+00	AF149773.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3110	15875	28514	3.42	0.0E+00	7662139	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3111	15876	28515	1.21	0.0E+00	AF042075.1	NT	Human ferritin heavy chain mRNA, complete cds
3138	15902	28547	3.74	0.0E+00	4826783	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3148	15911	28556	26.91	0.0E+00	L20841.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens SRSF3 (SRSF3) gene, complete cds
3161	15914	28560	1.32	0.0E+00	AB011121.1	NT	ye32103.s1 Stralagene lung (#937210) Homo sapiens cDNA clone IMAGE:119463 3' similar to SP:S28639
							S29539 BASIC PROTEIN, Z3K -
3158	15921	28567	8.63	0.0E+00	T94870.1	EST_HUMAN	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107493 5'
3172	15935	28584	0.98	0.0E+00	BF243336.1	EST_HUMAN	H.sapiens mRNA for gamma-glutamyltransferase
3178	15941	28591	4.39	0.0E+00	X98922.1	NT	H.sapiens mRNA for gamma-glutamyltransferase
3178	15941	28592	4.39	0.0E+00	X98922.1	NT	Homo sapiens neurexin III (NRXN3) mRNA
3187	15950	28601	1.31	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
3187	15950	28602	1.31	0.0E+00	4758827	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3195	15958	28610	8.46	0.0E+00	4504658	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
3211	15974	28626	3.25	0.0E+00	M28699.1	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3214	15977	28628	1.98	0.0E+00	4502098	NT	
3220	15983	28630	0.85	0.0E+00	4759055	NT	

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3220	15983	28637	0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (GREBBP) mRNA
3222	15985	28638	3.07	0.0E+00	AA774783.1	EST_HUMAN	aa87b11.s1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:371133 3'
3230	15993	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15993	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	16004	28653	1.36	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3248	16010	28661	1	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3255	16017		6.8	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3256	16018	28668	1.28	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SK12W), RD, complement factor B (Bf), and complement component C2 (C2) genes;>
3259	16020	28670	3.96	0.0E+00	AF065084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3261	16023	28672	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3269	17875	28680	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3285	16046	28695	2.25	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3286	16047	28696	1.17	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3287	16059	28708	1.22	0.0E+00	7657038	NT	Homo sapiens death receptor 8 (DR6), mRNA
3300	16062	28710	1.09	0.0E+00	AA994842.1	EST_HUMAN	cu58a08.s1 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632038 3'
3309	16069	28718	1.18	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3318	16078	28728	1.09	0.0E+00	AI669294.1	EST_HUMAN	tr56f08.x2 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222635 3' similar to SW:RL11_RAT
3326	16086	28736	2.33	0.0E+00	AF128933.1	NT	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element;
3326	16086	28737	2.33	0.0E+00	AF128933.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3327	16087	28738	1.22	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3327	16087	28739	1.22	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3328	16089	28741	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens p75N (MIEFV) gene, complete cds
3333	16093	28745	9.77	0.0E+00	AF111163.1	NT	Homo sapiens p75N (MIEFV) gene, complete cds
3336	16095	28747	1.29	0.0E+00	AB040940.1	NT	Homo sapiens p75N (MIEFV) gene, complete cds
3342	16101	28753	0.84	0.0E+00	BE179039.1	EST_HUMAN	G0146495F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3968246 5'
3352	16112	28767	0.72	0.0E+00	AI632569.1	EST_HUMAN	wb10f04.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR:Q91929 Q91929
3361	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	ZINC FINGER PROTEIN. ;
3361	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2/2000735 5'

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3398	16156	28807	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3398	16156	28808	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3401	16159	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3402	16160	28811	1.42	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-e isoform (CACNA1E) mRNA, complete cds
3403	16164	28824	0.99	0.0E+00	AW867015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3418	16175	28824	1.69	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28828	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3419	16176	28826	1.34	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3421	16178	28827	5.37	0.0E+00	5803087	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC incompatibility determinants
3440	16198	28846	1.5	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3448	16204	28853	3.54	0.0E+00	AB35159.1	EST_HUMAN	wp14d10.x1 NCLCGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE.
3448	16204	28854	3.54	0.0E+00	AB35159.1	EST_HUMAN	wp14d10.x1 NCLCGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE.
3452	16208	28859	2.48	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3459	16215	28868	1.82	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3459	16215	28869	1.82	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
3470	16226	28880	5.4	0.0E+00	U43293.1	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3475	16231	28884	1.18	0.0E+00	9558718	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3475	16231	28885	1.18	0.0E+00	9558718	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3479	16235	28890	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3479	16235	28891	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3484	16241	28898	1.12	0.0E+00	AF231922.1	NT	Homo sapiens chromosome 21 unknown mRNA
3486	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3486	16252	28906	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3499	16255	28909	0.92	0.0E+00	4826795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16260	28914	0.89	0.0E+00	AI984007.1	EST_HUMAN	te35g12.x1 Soares_NhhMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:000498
3507	16263	28917	1.11	0.0E+00	MI0976.1	NT	000498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN ;
3529	16285	28940	1.29	0.0E+00	AV701869.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	4506894	NT	AV701869 ADB Homo sapiens cDNA clone ADBDAH-06 5'
3531	16287	28942	1.74	0.0E+00	AF078858.1	NT	Homo sapiens semenogelin II (SEMG2) mRNA
3539	16295	28945	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3542	16297	28948	1.21	0.0E+00	AB040909.1	NT	Novel human gene mapping to chromosome X
3561	16316	28963	1.37	0.0E+00	6997248	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3561	16316	28964	1.37	0.0E+00	6997248	NT	Homo sapiens sea (Drosophila)-like 1 (SALL1), mRNA
3562	16317		0.69	0.0E+00	AI081907.1	EST_HUMAN	Homo sapiens eal (Drosophila)-like 1 (SALL1), mRNA
3564	16319	28967	1.04	0.0E+00	6326463	NT	ox77c11.x1 Soares_NhhMPu_S1 Homo sapiens cDNA clone IMAGE:1682356 3' similar to WP:T19B4.4 CE13742 ;
3569	16324		4.17	0.0E+00	AW652217.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3576	16331		0.78	0.0E+00	AF118846.1	NT	QV0-CT0225-230300-169-e01 CT0225 Homo sapiens cDNA
3577	16332	28976	6.46	0.0E+00	BF676393.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3589	16343	28988	0.9	0.0E+00	AW937977.1	EST_HUMAN	602084593F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248568 5'
3603	16356	28996	0.74	0.0E+00	BF672054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3603	16356	28997	0.74	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3604	16357		0.95	0.0E+00	4826997	NT	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3606	16359	28999	1.08	0.0E+00	AW664693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3608	16359	29000	1.08	0.0E+00	AW664693.1	EST_HUMAN	h84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2976024 3'
3609	16362	29004	1.42	0.0E+00	4826763	NT	h84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2976024 3'
3611	16364	29007	0.93	0.0E+00	7662319	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3621	16374	29015	0.82	0.0E+00	4557752	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3621	16374	29016	0.82	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3638	16391	29030	2.87	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3642	16395		33.2	0.0E+00	7669491	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3658	16411	29049	2.6	0.0E+00	AB026542.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3660	16413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3660	16413	29052	3.38	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	16421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	16421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3671	16424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
							MR2-CT0222-281099-005-e05 CT0222 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3673	16426	29087	1.53	0.0E+00	5728928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3675	16428	29089	1.81	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0766 protein, partial cds
3677	16430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3677	16430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3679	16432	29074	22.21	0.0E+00	7682237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3679	16432	29075	22.21	0.0E+00	7682237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3692	16445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-e-12-Q-UI.s1 NCL CGAP Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3692	16445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-e-12-Q-UI.s1 NCL CGAP Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3714	16467	29105	1.08	0.0E+00	AA463659.1	EST_HUMAN	aa0601.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:812498 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIB4. [1];
3718	16471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3721	16474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	16482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	16495	29130	4.9	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	16498	29133	4.29	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3751	16503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3800	16552		0.71	0.0E+00	AF195858.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	16554	29185	2.88	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3804	16556	29187	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	16556	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	16560	29193	1.24	0.0E+00	4755011	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3809	16561	29194	1.01	0.0E+00	10181139	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3812	16564	29197	1.01	0.0E+00	A1377699.1	EST_HUMAN	Mus musculus junctophilin 1 (Jp1-pending), mRNA
3813	16565		1.97	0.0E+00	AF152496.1	NT	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3814	16566	29198	1.14	0.0E+00	4758199	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3818	16570	29202	10.39	0.0E+00	S78685.1	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
3819	16571	29203	2.22	0.0E+00	7710148	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds
3820	16572	29204	6.03	0.0E+00	7682183	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3824	16576	29207	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16578	29208	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	16580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3829	16590	29214	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds

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3831	16582	29218	1.12	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16586	29222	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3836	16588	29223	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3837	16588	29228	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3838	16589	29227	0.69	0.0E+00	AF114488.1	NT	Homo sapiens intersechin short isoform (ITSN) mRNA, complete cds
3841	16592	29229	2.96	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3844	16595	29232	1.05	0.0E+00	AF012815.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3845	16596	29233	1.43	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3847	16598	29235	0.74	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16506	29244	2.16	0.0E+00	AI864727.1	EST_HUMAN	wk01f01.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411085 3' similar to TR:O43340
3859	16609	29248	4.24	0.0E+00	4506742	NT	O43340 R28830.2; contains element PTR7 repetitive element;
3862	16612	29251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S9 (RPS9), mRNA
3867	16617	29256	1.28	0.0E+00	6005887	NT	DKFZp434N0413_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0413 5'
3867	16617	29257	1.28	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	29259	3.22	0.0E+00	4504138	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3871	16621		1.82	0.0E+00	4505078	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3875	16625	29263	1.18	0.0E+00	AF149412.1	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3884	16634	29273	1.2	0.0E+00	4506758	NT	Homo sapiens dyranodine receptor 3 (RYR3) mRNA
3888	16638	29277	1.47	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
3896	16646	29286	1.18	0.0E+00	BF355295.1	EST_HUMAN	RC3-HT0860-170800-011-at12 HT0860 Homo sapiens cDNA
3898	16648	29288	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1886728 similar to MXRA5
3898	16648	29289	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1886728 similar to MXRA5
3904	16654	29285	1.82	0.0E+00	AF128533.1	NT	Matrix remodeling associated gene 5
3907	16657	29288	1	0.0E+00	AW451306.1	EST_HUMAN	Homo sapiens F-box protein Fb3b (FBL3B) mRNA, partial cds
3912	16662	29303	2.81	0.0E+00	BE378602.1	EST_HUMAN	UI-H-B13-ah-g-07-d-UJ.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736949 3'
3920	16670	29311	0.92	0.0E+00	AW580740.1	EST_HUMAN	601236986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3808800 5'
3922	16672	29312	2.49	0.0E+00	5360215	NT	PM3-L10031-100100-003-h09 L10031 Homo sapiens cDNA
3923	16673	29313	0.99	0.0E+00	BE264998.1	EST_HUMAN	Homo sapiens diuronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3923	16673	29314	0.98	0.0E+00	BE264998.1	EST_HUMAN	60118827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
3952	16702	29339	1.42	0.0E+00	U10991.1	NT	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'

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3952	16702	29340	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3952	16702	29341	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3957	16706	29344	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16706	29346	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3966	16716		4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3968	16717		6.74	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3975	16724	29359	1.35	0.0E+00	AL119494.1	NT	Novel human gene mapping to chromosome 20
3979	16727	29361	3.22	0.0E+00	AL163284.2	NT	Novel human gene mapping to chromosome 21 segment HS21C084
3987	16735	29369	1.71	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
3989	16747		27.98	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4003	16750		1.15	0.0E+00	AI657076.1	EST HUMAN	Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309
4005	16761	29382	2.97	0.0E+00	7662183	NT	KIAA0563 PROTEIN.
4006	16762	29383	2.65	0.0E+00	U09366.1	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4013	16769	29387	0.95	0.0E+00	AW339490.1	EST HUMAN	Human zinc finger protein ZNF133
4024	16768	29401	6.33	0.0E+00	AB015610.1	NT	Human zinc finger protein ZNF133
4033	16778		3.72	0.0E+00	AI238617.1	NT	Chlorocebus aethiops miRNA for UGA suppressor RNA-associated antigenic protein (IRNA48 gene)
4045	16780	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4046	16781	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4047	16792	29420	1.18	0.0E+00	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
4048	16793	29421	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rpe-2 (rpa gene)
4048	16793	29422	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rpe-2 (rpa gene)
4054	16799	29429	6.29	0.0E+00		5032026	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4054	16799	29430	6.29	0.0E+00		5032026	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4054	16799	29430	6.29	0.0E+00		5032026	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4069	16813	29442	4.7	0.0E+00		4885306	Homo sapiens mRNA for KIAA0287 gene, partial cds
4070	16814	29443	5.98	0.0E+00	AB006825.1	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4073	16817	29444	1.11	0.0E+00		4758807	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4074	16818	29445	5.87	0.0E+00		11419297	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4075	16819	29446	1.94	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4082	16826	29453	2.71	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4091	13867	26525	0.82	0.0E+00		4926947	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4091	13867	26526	0.82	0.0E+00		4826947	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4097	16840	29466	1.09	0.0E+00		5901805	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4098	16842	29469	1.08	0.0E+00		4503854	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

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4099	16842	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
4107	16850	29478	0.89	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	16855	29482	4.93	0.0E+00	AI982597.1	EST_HUMAN	wu04d04.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	16855	29483	4.63	0.0E+00	AI982597.1	EST_HUMAN	wu04d04.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'
4115	16857	29485	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-e02 HT0707 Homo sapiens cDNA
4115	16857	29486	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-e02 HT0707 Homo sapiens cDNA
4120	16862		2.34	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2987690 5'
4128	16868	29495	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16868	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16870	29498	2.24	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	16877		5.52	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800085 3' similar to SW:TH12_BOVIN
4140	16882	29511	1.14	0.0E+00	AW408768.1	EST_HUMAN	Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4142	16884	29514	1.26	0.0E+00	8922466	NT	UI-HF-BM0-adv-c-02-0-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 6'
4142	16884	29515	1.26	0.0E+00	8922468	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4151	16893		2.8	0.0E+00	5174632	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4169	16909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4169	16909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4203	16946		1.01	0.0E+00	AL163303.2	NT	repetitive element; contains element MER35 repetitive element ;
4240	16981	29606	4.08	0.0E+00	JO2610.1	NT	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4255	16986	29625	0.83	0.0E+00	AW936689.1	EST_HUMAN	repetitive element; contains element MER35 repetitive element ;
4261	17002	29633	0.74	0.0E+00	4826827	NT	Homo sapiens chromosome 21 segment HS21C103
4261	17002	29634	0.74	0.0E+00	4826827	NT	Homo sapiens apolipoprotein B-100 mRNA, complete cds
4263	17004	29636	4.7	0.0E+00	AF174590.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4270	17010		2.52	0.0E+00	AI189844.1	EST_HUMAN	PM2-DT0023-080300-004-e08 DT0023 Homo sapiens cDNA
4273	17012		4.32	0.0E+00	U14520.1	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4285	17024	29650	1.35	0.0E+00	4505646	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4291	17030	29657	0.76	0.0E+00	6563384	NT	qg23f06.x1 Soares_placenta_8to9weeks_2NbfHP8to9W Homo sapiens cDNA clone IMAGE:1724578 3'
4291	17030	29658	0.76	0.0E+00	6563384	NT	similar to contains MER20.b2 MER20 repetitive element ;
4297	17036	29664	1.58	0.0E+00	U10991.1	NT	Human CBFA3 (Cbfa3) gene, partial cds
							Homo sapiens protein kinase C, nu (PRKCN), mRNA
							Homo sapiens protein kinase C, nu (PRKCN), mRNA
							Homo sapiens protein kinase C, nu (PRKCN), mRNA
							Human G2 protein mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17036	29665	1.58	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
4307	17046	29671	8.31	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17098		1.16	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4337	17076	29704	4.17	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	29709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	29710	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4342	17081	29711	0.94	0.0E+00	AW166933.1	EST_HUMAN	xg68e10.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P97365 P97365
4348	17087	29717	1.42	0.0E+00	X60483.1	NT	ZINC FINGER PROTEIN 64:
4348	17087	29718	1.42	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29724	8.62	0.0E+00	7662091	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29725	8.62	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4366	17104	29740	12.59	0.0E+00	AJ271736.1	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4367	17105	29741	1.14	0.0E+00	AJ271736.1	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4400	17137	29766	0.98	0.0E+00	AF195953.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
4414	17151	29778	0.65	0.0E+00	AF195953.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
4414	17151	29779	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4436	17172	29814	1.81	0.0E+00	AF200629.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4453	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4453	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4456	17192		0.73	0.0E+00	M14123.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4468	17202	29828	5.68	0.0E+00	AW084964.1	EST_HUMAN	Homo sapiens HPS1 gene, intron 6
4468	17881		1.67	0.0E+00	8051619	NT	seq1329 b4HB3MA C018-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 6'
4470	17205	29831	0.93	0.0E+00	AI696698.1	EST_HUMAN	seq1329 b4HB3MA C018-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 6'
4473	17208		8.82	0.0E+00	AL163207.2	NT	Human endogenous retrovirus HERV-K10
4475	17210	29835	3.17	0.0E+00	AW381570.1	EST_HUMAN	xc68e08.x1 NCL CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW-AHNK_HUMAN
4481	17216	29842	1.99	0.0E+00	AJ278120.1	NT	Q09668 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNK1;
4481	17216	29843	1.99	0.0E+00	AJ278120.1	NT	Q09668 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNK1;
4483	17218	29845	1.29	0.0E+00	4758487	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4484	17219	29846	2.88	0.0E+00	AF108830.1	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
							PT55 repetitive element;
							Homo sapiens chromosome 21 segment HS21C007
							PM1-HT0305-101189-002-003 HT0305 Homo sapiens cDNA
							Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4493	17229	29858	1.26	0.0E+00	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ16/BIR1) gene, exon
4494	17230	29859	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4494	17230	29860	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4502	17882	29870	2.56	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4507	17242	29875	6.16	0.0E+00	AF208181.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF152337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4515	17250	29886	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4526	17260	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17267	29900	0.79	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 8 (LRP8) mRNA, and translated products
4536	17271	29903	1.91	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17275	29908	2.03	0.0E+00	4502558	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17279		2.38	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphate sulphatase (IDS) gene, complete cds
4549	17281	29910	12.72	0.0E+00	7602091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4546	17281	29911	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4553	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4566	17301	29928	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4566	17301	29929	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316		1.68	0.0E+00	AA174072.1	EST_HUMAN	zfp18g08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:608854 3'
4593	17318		1.46	0.0E+00	7667410	NT	Homo sapiens cdz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA
4595	17320		3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4596	17321	29947	1.04	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pituitary_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4598	17321	29948	1.04	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pituitary_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4597	17322	29949	2.8	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4598	17323	29950	4.94	0.0E+00	AF163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4599	17324		1.66	0.0E+00	AB037621.1	NT	Homo sapiens gene for natriuretic protein, partial cds
4596	17331	29956	1.53	0.0E+00	4557987	NT	Homo sapiens keratin 18 (KRT18) mRNA
4598	17331	29959	1.53	0.0E+00	4557987	NT	Homo sapiens keratin 18 (KRT18) mRNA
4597	17332	29960	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4668	17333	29862	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4669	17334	29863	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4670	17340	29871	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4671	17346	29878	5.25	0.0E+00	Y18880.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4672	17352	29887	1.08	0.0E+00	AA418248.1	EST_HUMAN	z96807.s1 Scars_NihHMPV_S1 Homo sapiens cDNA clone IMAGE:787805 3'
4673	17359		2.27	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4674	17364	29898	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4675	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4676	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4677	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4678	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4679	17364	29899	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4680	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4681	17365	30001	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4682	17365	30002	2.67	0.0E+00	M74099.1	NT	Human displacement protein (COAT) mRNA
4683	17365	30003	2.67	0.0E+00	M74099.1	NT	Human displacement protein (COAT) mRNA
4684	17365	30004	2.67	0.0E+00	M74099.1	NT	Human displacement protein (COAT) mRNA
4685	17365	30005	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4686	17365	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4687	17365	30007	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4688	17365	30008	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4689	17365	30009	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4690	17365	30010	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4691	17365	30011	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4692	17365	30012	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4693	17365	30013	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4694	17365	30014	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4695	17365	30015	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4696	17365	30016	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4697	17365	30017	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4698	17365	30018	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4699	17365	30019	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4700	17365	30020	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4701	17365	30021	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4702	17365	30022	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4703	17365	30023	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4704	17365	30024	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4705	17365	30025	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4706	17365	30026	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4707	17365	30027	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4712	17444	30077	0.84	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444637.1	EST HUMAN	UI-H-B13-qlw-c-04-0-UJ.s1 NCJ CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4750	17482		2.28	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4780	17521			0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4794	17525	30147	2.02	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4796	17527	30149	1.11	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4797	17528	30160	1.98	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4798	17529	30161	3.01	0.0E+00	4503766	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4805	17536	30159	5.7	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4809	17540	30163	0.97	0.0E+00	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30184	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4810	17541	30185	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4812	17543	30187	1.44	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4812	17543	30188	1.44	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4815	17546	30171	2.98	0.0E+00	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4823	17554	30176	1.17	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
4830	17561	30183	1.08	0.0E+00	X92841.1	NT	H. sapiens MICA gene
4832	17563	30185	1.91	0.0E+00	4585842	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4833	17584	30188	1.81	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4834	17585	30187	2.24	0.0E+00	6677648	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4836	17566	30188	0.95	0.0E+00	5174560	NT	Homo sapiens meningoangioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
4838	17587	30189	1.19	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
4838	17589	30191	1.81	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4842	17672	30196	12.62	0.0E+00	AF055066.1	NT	Homo sapiens MHC class 1 region
4844	17574		3.47	0.0E+00	4505508	NT	Homo sapiens oploid receptor, delta 1 (OPRD1) mRNA
4845	17575	30189	2.39	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4858	17587	30210	1.07	0.0E+00	D63592.1	NT	Homo sapiens COL4A6 gene for alpha(V) collagen, exon 44 and partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4860	17589	30212	1.68	0.0E+00	4503084	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPs) mRNA
4865	17224	29852	1.03	0.0E+00	4509952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminase; alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4875	17602	30224	3.09	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4876	17602	30225	3.09	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.95	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4889	17626	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4906	17633	30248	1.02	0.0E+00	AW452728.1	EST_HUMAN	U1-H-B13-alc-f-02-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3088691 3'
4909	17637	30251	1.61	0.0E+00	8922926	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4912	17640	30255	1.09	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
4916	17643		4.69	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408663.1	EST_HUMAN	801303729F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17656	30268	3.18	0.0E+00	4758199	NT	Homo sapiens desmoglein (DPI, DP1) (DSP) mRNA
4933	17661	30271	1.15	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17666	30274	1.01	0.0E+00	AB028966.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phet1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30292	0.81	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN;
4958	17683	30293	0.81	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN;
4961	17686	30295	1.11	0.0E+00	AF161463.1	NT	no14g09.s1 NCI_CGAP_Phet1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	E239140 SPALT PROTEIN;
4973	13018	25661	0.71	0.0E+00	AF186668.1	NT	E239140 SPALT PROTEIN;
4976	17699		0.84	0.0E+00	AL050253.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4985	17708	30312	1.63	0.0E+00	AF016705.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4986	17709	30313	1.5	0.0E+00	Y19186.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4986	17709	30314	1.5	0.0E+00	Y19186.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6, Shares domains with BMP6, Tolloid, Sushi repeat proteins
4994	17717		1.28	0.0E+00	AL163209.2	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		26.03	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGTP3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stralagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:548402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stralagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:548402 5'
5012	16924	29553	0.85	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5012	16924	29534	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5028	17747	30359	3	0.0E+00	X52988.1	NT	Bacillus amyloquelaciens secB gene for levensucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens ecdotropic viral integration site 2A (EVI2A), mRNA
5045	17764	30381	1.55	0.0E+00	7657074	NT	Homo sapiens ecdotropic viral integration site 2A (EVI2A), mRNA
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5058	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30414	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5079	17798	30415	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.76	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5081	17800	30418	0.76	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens deleted in bladder cancer chromosome region candidate 1 (DBCOR1), mRNA
5097	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens mRNA for KIAA0556 protein, partial cds
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
5110	17828	30445	1.14	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5111	17829	30446	1.88	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5112	17830	30447	0.69	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.53	0.0E+00	4505096	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.6	0.0E+00	AW855819.1	EST_HUMAN	EST367869 MAGI resequencer, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5128	17844		1.12	0.0E+00	AJ010179.1	NT	Homo sapiens gabab1 receptor gene, exon 6

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17857	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17861	30477	1.19	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neurxin I-alpha protein, complete cds
5151	17868	30481	1.18	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17871		1.08	0.0E+00	M91803.1	NT	Human sodium channel mRNA
5155	17872	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17893		3.44	0.0E+00	AF093093.1	NT	Homo sapiens acrinase (AC02) gene, nuclear gene encoding mitochondrial protein, exon 15
5172	17881	30495	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17981	30496	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30623	1.29	0.0E+00	AI834954.1	EST_HUMAN	wp08g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2484094 3'
5195	18003	30628	1.77	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDHA13), mRNA
5209	18017	30639	3.81	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
5213	18021	30643	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30644	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30652	1.88	0.0E+00	X56163.1	NT	H.sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30653	1.66	0.0E+00	X56163.1	NT	H.sapiens immunoglobulin heavy chain gene, variable region
5299	18104	30763	6.56	0.0E+00	BE875498.1	EST_HUMAN	7110c08.x1 NCL_CGAP_CLL7 Homo sapiens cDNA clone IMAGE:3294250 3'
5300	18105	30764	1.75	0.0E+00	BE220753.1	EST_HUMAN	h99a02.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3165194 3' similar to SW:Y054_HUMAN
5301	18106	30765	1.93	0.0E+00	BE794412.1	EST_HUMAN	P42694 HYPOTHETICAL PROTEIN KIAA0064.;
5301	18106	30766	1.93	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5302	18107	30767	0.81	0.0E+00	AI189142.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5306	18111	30770	6.17	0.0E+00	M28908.1	NT	q04a04.x1 Soares placenta 8tc0weeks_2Nblp8tc0w Homo sapiens cDNA clone IMAGE:1722702 3' similar to SW:T2D3_DROME P49848 TRANSCRIPTION INITIATION FACTOR TFID 85 KD SUBUNIT ;
5319	25068	30780	4.68	0.0E+00	11421038	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5329	18132		7.18	0.0E+00	BF665962.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5330	18133	30791	0.73	0.0E+00	AU134408.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5330	18133	30792	0.73	0.0E+00	AU134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5335	18138	30789	1	0.0E+00	BE538657.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5344	18147	30826	1.07	0.0E+00	BE292784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5348	18151	30831	1.69	0.0E+00	BF526328.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888310 5'
5348	18151	30832	1.69	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4214272 5'
5367	19491	32513	1.82	0.0E+00	4557364	NT	602071372F1 NCL_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4214272 5'
5370	18171	30858	0.91	0.0E+00	AB007935.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
							Homo sapiens mRNA for KIAA0468 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5370	18171	30859	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0498 protein, partial cds
5374	18174	30863	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5374	18174	30864	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 8 (DNAH8) mRNA, complete cds
5387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydrodipicolinate succinyltransferase, complete cds (exon 1-15)
5387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydrodipicolinate succinyltransferase, complete cds (exon 1-15)
5401	18201	30908	1.88	0.0E+00	11420819	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5407	18208	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5428	18225	30936	0.78	0.0E+00	D81594.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6536) Homo sapiens cDNA clone GEN-418D05
5428	18225	30936	0.78	0.0E+00	D81594.1	EST_HUMAN	5'
5428	18225	30937	0.78	0.0E+00	D61594.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6536) Homo sapiens cDNA clone GEN-418D05
5429	18228	30941	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bmi67 Homo sapiens cDNA clone IMAGE:4179888 5'
5429	18228	30942	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bmi67 Homo sapiens cDNA clone IMAGE:4179888 5'
5434	18233	30946	2.92	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'
5445	18244	31132	4.37	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5477	18276	31171	1.15	0.0E+00	BE26077.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502809 5'
5486	18285	31171	3.51	0.0E+00	AW867316.1	EST_HUMAN	MR0-SN0037-030400-001-R07 SN0037 Homo sapiens cDNA
5500	18298	31196	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105281F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5500	18298	31197	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105281F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5521	18319	31219	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5521	18319	31220	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5528	18326	31229	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31239	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5535	18333	31240	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5566	18363	31271	0.81	0.0E+00	AI198515.1	EST_HUMAN	q94g10.x1 Soares placenta 8069w, 2NHP8168W Homo sapiens cDNA clone IMAGE:1767730 3'
5570	18367	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	similar to SW-CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR ;
5577	18374	31286	4.83	0.0E+00	AW405472.1	EST_HUMAN	EST02238 Fetal brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBGM48
5590	18386	31296	1.25	0.0E+00	Z26269.1	NT	UI-HF-BL0-adh-d-02-0-U1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5601	18398	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	H. sapiens isoform 1 gene for L-type calcium channel, exon 14 adhd 15
5601	18398	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5601	18398	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5601	18398	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5603	18401	31316	2.55	0.0E+00	U36281.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5636	18431	31344	1.03	0.0E+00	AB046861.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds
5691	18485	31404	1.56	0.0E+00	AJ008345.1	NT	Homo sapiens KVLQT1 gene
5691	18485	31405	1.56	0.0E+00	AJ008345.1	NT	Homo sapiens KVLQT1 gene
5699	18493	31416	1.19	0.0E+00	AJ207616.1	EST_HUMAN	HA2881 Human fetal liver cDNA library Homo sapiens cDNA
5717	18509	31430	6.23	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5722	18514	31433	1.21	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5731	18523	31444	1.13	0.0E+00	99898943	NT	Homo sapiens arylidate-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5732	18524	31445	6.69	0.0E+00	BE560082.1	EST_HUMAN	Homo sapiens arylidate-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5733	18525	31446	1.67	0.0E+00	10048478	NT	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5734	18528	31447	4.05	0.0E+00	U68961.1	NT	Mus musculus ezonin (Acz), mRNA
5734	18528	31448	4.05	0.0E+00	U68961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5752	18544	31466	2.28	0.0E+00	BF338835.1	EST_HUMAN	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5756	18548	31469	1.03	0.0E+00	AF142921.1	NT	602036272F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5757	18549	31470	3.08	0.0E+00	BE273983.1	EST_HUMAN	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5768	18556	31486	0.88	0.0E+00	BE503096.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5773	18564	31493	1.97	0.0E+00	BF569905.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5776	18569	31497	1.21	0.0E+00	AA454642.1	NT	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5811	18600	31528	2.38	0.0E+00	AF217289.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5813	18602	31530	1.79	0.0E+00	BE828144.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5818	18607	31535	2.27	0.0E+00	BE659636.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5831	18620	31552	0.55	0.0E+00	BE673986.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5831	18620	31553	0.55	0.0E+00	BE673986.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5836	18625	31559	1.14	0.0E+00	AW276760.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5847	18634	31571	1.16	0.0E+00	BF031742.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5847	18634	31572	1.16	0.0E+00	BF031742.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5859	18646	31587	0.58	0.0E+00	AW470846.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5872	18659	31593	0.77	0.0E+00	BF155870.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18659	31600	0.77	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA
5878	18664	31604	3.22	0.0E+00	W33069.1	EST_HUMAN	zc08108.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18664	31605	3.22	0.0E+00	W33069.1	EST_HUMAN	zc08108.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18665		2.51	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18668	31609	3.33	0.0E+00	BE280197.1	EST_HUMAN	601188515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
5890	18675	31620	2.6	0.0E+00	BE888610.1	EST_HUMAN	601512630F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3914238 5'
5905	18690	31639	0.6	0.0E+00	AW752948.1	EST_HUMAN	IL3-CT0220-111189-028-E04 CT0220 Homo sapiens cDNA
5908	18692	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5908	18692	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5909	18693	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5923	25081	31681	10.86	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5926	18710	31684	1.2	0.0E+00	AA183506.1	EST_HUMAN	zc40101.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 6.;
5926	18710	31684	1.2	0.0E+00	AA183506.1	EST_HUMAN	zc40101.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 6.;
5948	18730	31689	16.77	0.0E+00	U34825.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
5948	18730	31690	16.77	0.0E+00	U34825.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
5987	18768	31732	0.99	0.0E+00	BE256330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355585 5'
5997	18778	31740	1.2	0.0E+00	BE166581.1	EST_HUMAN	QV0-HT0368-090200-098-e09 HT0368 Homo sapiens cDNA
6007	18789	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE379007.1	EST_HUMAN	601236278F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6046	18825	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6066	18845	31809	3.76	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-8 gene, complete cds
6094	18872	31839	4.52	0.0E+00	AA204740.1	EST_HUMAN	zc81403.r1 Strabagene IN1T neuron (8937233) Homo sapiens cDNA clone IMAGE:848005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN.;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6129	18907	31875	1.14	0.0E+00	11426367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.87	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:33560622 5'
6147	18924		0.85	0.0E+00	AI686048.1	EST_HUMAN	tt9110.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2248939 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN.;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6151	18928	31897	1.53	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18936	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	601687971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6159	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6170	18947	31919	0.57	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT;
6170	18947	31920	0.57	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT;
6172	18949	31921	0.85	0.0E+00	BF357123.1	EST_HUMAN	MRO-HT0923-220800-102-505 HT0923 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6189	18966	31939	0.65	0.0E+00	D55649.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31961	1.03	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010999-014-A04 HT0082 Homo sapiens cDNA
6228	19002	31978	0.66	0.0E+00	BE674544.1	EST_HUMAN	7e02c12.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN Q14881 HYPOTHETICAL PROTEIN KIAA0176 ;
6232	19006	31983	1.33	0.0E+00	7682039	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6246	19020		8.59	0.0E+00	AV650020.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6264	19028	32003	3.13	0.0E+00	AW575598.1	EST_HUMAN	UI-HF-BLO-acc-g-12-0-J1.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
6257	19031	32006	6.26	0.0E+00	H01255.1	EST_HUMAN	W27b03.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:149833 5'
6269	19042	32019	1.6	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6271	19044	32021	0.65	0.0E+00	AA456375.1	EST_HUMAN	aa14e07.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6272	19045	32022	1.3	0.0E+00	AI612841.1	EST_HUMAN	tc57408.x1 NCL CGAP_Ox45 Homo sapiens cDNA clone IMAGE:2292687 3' similar to SW:NTCS_HUMAN
6278	19051	32028	4.71	0.0E+00	BE735989.1	EST_HUMAN	P53798 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2 ;
6278	19051	32029	4.71	0.0E+00	BE735989.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6282	19055	32036	0.86	0.0E+00	AW748598.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6282	19055	32036	0.86	0.0E+00	AW748598.1	EST_HUMAN	MRO-BT0284-221199-002-f11 BT0284 Homo sapiens cDNA
6283	19056		0.6	0.0E+00	U77626.1	NT	MRO-BT0284-221199-002-f11 BT0284 Homo sapiens cDNA
6285	19058	32038	15.59	0.0E+00	AU119245.1	EST_HUMAN	Homo sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds
6285	19058	32039	15.59	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6289	19062	32044	0.8	0.0E+00	BE780453.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6280	19063	32045	1.12	0.0E+00	X92217.1	NT	601468712F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3871899 5'
6304	19076	32062	1.52	0.0E+00	AI989483.1	EST_HUMAN	H. sapiens germ-line immunoglobulin heavy chain, variable region, (13-2)
6317	19088	32072	6.91	0.0E+00	BE293153.1	EST_HUMAN	ws25c07.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2498220 3'
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6355	19125	32119	0.58	0.0E+00	BF057438.1	EST_HUMAN	7K43M05.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3478496 3' similar to TR:O14563 O14553 R31240.1;
6388	19157	32157	1.99	0.0E+00	AW408348.1	EST_HUMAN	UI-HF-BLO-aco-h-02-0-UJ1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058931 5'
6388	19157	32158	1.89	0.0E+00	AW408348.1	EST_HUMAN	UI-HF-BLO-aco-h-02-0-UJ1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058931 5'
6418	19186	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC06 5'
6427	19185	32191	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6427	19185	32192	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6430	19188	32195	2.24	0.0E+00	AF180880.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CAGNA1G) mRNA, complete cds
6433	19201	32197	1.17	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6440	19208	32204	7.5	0.0E+00	AW163840.1	EST_HUMAN	au06h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206;
6440	19208	32205	7.5	0.0E+00	AW163840.1	EST_HUMAN	au06h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206;
6444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6469	19226	32228	1.08	0.0E+00	BE794853.1	EST_HUMAN	601589371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6468	19233	32233	5.81	0.0E+00	BE793873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6467	19234	32234	0.56	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6467	19234	32235	0.56	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6471	19238	32238	6.95	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6471	19238	32239	6.95	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6480	19247	32247	5.62	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2
6486	19262	32251	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6485	19252	32252	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6491	19258	32259	4.06	0.0E+00	6005993	NT	Homo sapiens chromosome 21 segment HS21C004
6494	19260	32261	4.76	0.0E+00	AL638412.1	EST_HUMAN	ff31f1.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE P17593 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR.;
6495	19261	32262	1.36	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6507	19272	32273	4.12	0.0E+00	AA434584.1	EST_HUMAN	zw52c03.r1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone IMAGE:773668 5'
6520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
6523	19289	32293	1.82	0.0E+00	BE925875.1	EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19336	32346	1.6	0.0E+00	AU125928.1	EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6594	19367	32371	1.67	0.0E+00	BE142363.1	EST_HUMAN	CM0-HT0143-270989-062-008 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE008012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE008012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6638	19400	32416	8.38	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6640	19402	32417	1.93	0.0E+00	BF085687.1	EST_HUMAN	IL5-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6678	19595	32633	3.49	0.0E+00	AA190755.1	EST_HUMAN	zp88e03.r1 Stralagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627282 5'
6690	19607	32647	0.94	0.0E+00	U93573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32649					7649507.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q9Z285
6703	19618	32660	0.91	0.0E+00	BE571987.1	EST_HUMAN	TEKTN.1
6703	19618	32660	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6703	19618	32661	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6714	19629	32674	1.91	0.0E+00	11435626	NT	Homo sapiens CD8 antigen (CD8), mRNA
6726	19560	32592	0.99	0.0E+00	AL042443.1	EST_HUMAN	DKFZp344D2021_r1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp344D2021 5'
6729	19563	32595					cc10401.x1 Soares_NSF_F8_GW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1555781 3' similar to
6734	19568	32600	0.9	0.0E+00	A1168270.1	EST_HUMAN	TR-Q26623 Q26623 TEKTN C1.1
6752	17921	30566	0.83	0.0E+00	BE734087.1	EST_HUMAN	601567370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6761	17930	30565	1.68	0.0E+00	BE566381.1	EST_HUMAN	601333977F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682287 5'
6761	17930	30565	11.84	0.0E+00	BE887889.1	EST_HUMAN	601443687F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6761	17930	30566	11.84	0.0E+00	BE887889.1	EST_HUMAN	601443687F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6768	19510	32535					7649703.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231681 3' similar to SW:GG85_HUMAN
6768	19510	32535	2.2	0.0E+00	BE550162.1	EST_HUMAN	7649703.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231681 3' similar to SW:GG85_HUMAN
6766	19510	32536	2.2	0.0E+00	BE550162.1	EST_HUMAN	Q08379 GOLGIN-95.1
6790	19534	32592	1.25	0.0E+00	BF088376.1	EST_HUMAN	CM1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA
6796	19540	32568	2.48	0.0E+00	AA195106.1	EST_HUMAN	zz34903.r1 Soares_Nhi-IMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'
6803	19484		12.37	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19468	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32490	0.8	0.0E+00	BE313076.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32491	0.8	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19483	32505	2.69	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6837	19489		2.32	0.0E+00	J03069.1	NT	Human MYCL2 gene, complete cds
6845	19545	32573	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19545	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	M98113.1	NT	Human neurofibromatosis type 1 gene, exon x8
6858	17935	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17936	30572	0.74	0.0E+00	AI419969.1	EST_HUMAN	ig53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN. ;
6859	17936	30573	0.74	0.0E+00	AI419969.1	EST_HUMAN	ig53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN. ;
6863	17940	30576	0.78	0.0E+00	BE256708.1	EST_HUMAN	601115515F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3356330 5'
6874	17950	30546	0.58	0.0E+00	BE904955.1	EST_HUMAN	601496743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898739 5'
6884	17960	30514	1.05	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
6887	17963	30518	8.08	0.0E+00	BE262941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6888	17964	30519	2.28	0.0E+00	Z37978.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6888	17964	30520	2.28	0.0E+00	Z37978.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6889	17965	30521	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6889	17965	30522	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17970	30527	1.06	0.0E+00	AF310108.1	NT	Homo sapiens NALP1 mRNA, complete cds
6899	19637	32681	1.03	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-101 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6908	19646	32692	4.53	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32696	0.79	0.0E+00	AW502362.1	EST_HUMAN	UIHF-BR0p-aka-d-10-Q-UIr1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6913	19650	32697	0.79	0.0E+00	AW502362.1	EST_HUMAN	UIHF-BR0p-aka-d-10-Q-UIr1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6922	19658	32704	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	6.87	0.0E+00	BF306996.1	EST_HUMAN	60189823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6934	19669	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7008	19700	32754	0.65	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7008	19700	32755	0.65	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW954806.1	EST_HUMAN	EST366876 MAGE sequences, MAGEC Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	601113858F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354588 5'
7033	19725	32781	0.98	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32781	0.64	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7041	19732	32782	0.64	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7047	19738	32789	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001566 5'
7062	19753	32818	0.95	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7064	19755	32820	0.56	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells VI Homo sapiens cDNA 5' end
7069	19760		2.57	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7070	19761	32823	0.94	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917184 5'
7079	19770	32835	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917184 5'
7100	17861	30495	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17881	30496	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32891	0.55	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform aa (CACNA1G) mRNA, complete cds
7156	19843	32911	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc67a07.x1 Soares_p1centa_8tc9weeks_2NBHP8t69W Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7156	19843	32912	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc67a07.x1 Soares_p1centa_8tc9weeks_2NBHP8t69W Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7158	19845	32914	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7158	19845	32915	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7161	19848	32918	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCI CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.85	0.0E+00	AA128453.1	EST_HUMAN	zn60709.11 Stratagene muscle 837209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562 G806562 NEBULIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7170	18858	32927	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7170	18858	32928	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7208	18893	32989	1.09	0.0E+00	BE296469.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528784 5'
7210	18895	32970	1	0.0E+00	11427865	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7213	18898		1.42	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7214	18899	32973	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7214	18899	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7226	18911	32984	0.87	0.0E+00	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
7232	18917	32989	8.04	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7234	18918	32991	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7234	18918	32992	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7247	18932	33007	0.86	0.0E+00	AW965503.1	EST_HUMAN	EST368573 MAGC resequences, MAGD Homo sapiens cDNA
7249	18934	33008	0.56	0.0E+00	BE672445.1	EST_HUMAN	7a60h08.x1 NCL_CGAP_GCG Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb:M54911_rna1 IG
7250	18935	33010	2.52	0.0E+00	AW965516.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-II REGION (HUMAN);
7273	18957	33033	0.67	0.0E+00	AF001543.1	EST_HUMAN	EST362586 MAGC resequences, MAGA Homo sapiens cDNA
7273	18957	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7273	18957	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7292	18975		0.66	0.0E+00	M90354.1	NT	Human BTF3 protein homologue gene, complete cds
7293	18978	33053	0.98	0.0E+00	BE408293.1	EST_HUMAN	601302879F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7305	18988	33054	0.6	0.0E+00	AW402642.1	EST_HUMAN	UI-HF-BKO-eas-g-07-0-JLr1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	ym88h10.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:166031 6'
7323	20006	33083	1.88	0.0E+00	AW239326.1	EST_HUMAN	x39a05.y1 NCL_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578840 5' similar to TR:Q08050 Q08050
7342	20023		1.31	0.0E+00	AU117553.1	EST_HUMAN	HNF3/FH TRANSCRIPTION FACTOR GENESIS:
7344	20025	33101	3.87	0.0E+00	11427135	NT	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7366	20046	33126	0.58	0.0E+00	BF228235.1	EST_HUMAN	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7372	20052	33133	0.67	0.0E+00	L32832.1	NT	MRO-AN0083-270900-004-107 AN0083 Homo sapiens cDNA
7397	20075	33154	1.18	0.0E+00	BF306998.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7397	20075	33155	1.18	0.0E+00	BF306998.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7406	20083	33166	0.92	0.0E+00	AU118767.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7460	20133	33223	4.16	0.0E+00	AI752561.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
							cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7460	20133	33224	4.16	0.0E+00	AI752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin-1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin-1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7557	20227	33330	1.1	0.0E+00	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG O02886
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG O02886
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG O02886
7586	20264	33360	1.97	0.0E+00	AI825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1.;
7586	20254	33361	1.97	0.0E+00	AI825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1.;
7594	20262	33370	1.51	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7599	20265	33373	1.09	0.0E+00	N76126.1	EST_HUMAN	z886e05.s1 Sceres_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:299458 3'
7604	20270	33377	5.87	0.0E+00	BF217905.1	EST_HUMAN	601885465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:4103729 5'
7613	20278	33387	5.41	0.0E+00	AU129822.1	EST_HUMAN	AU129822 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7633	25117	33406	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7633	25117	33407	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7636	20301	33409	6.26	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7643	20308	33416	1.13	0.0E+00	AV759467.1	EST_HUMAN	AV759467 BM Homo sapiens cDNA clone BMFBGG05 5'
7645	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7648	20310	33419	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7646	20310	33420	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7680	20344	33456	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7680	20344	33457	1.81	0.0E+00	BE767810.1	EST_HUMAN	601481713F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884268 5'
7720	20384	33498	0.83	0.0E+00	W62673.1	EST_HUMAN	zc90f10.1 Pancreatic islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20398	33513	0.56	0.0E+00	AW402332.1	EST_HUMAN	UJHF-BKO-aal-b-08-0-ULr1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33515	0.76	0.0E+00	AA760692.1	EST_HUMAN	nz13a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	nz13a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7752	20448	33572	0.84	0.0E+00	AU133187.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
7812	20507	33630	0.82	0.0E+00	BE313013.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7824	20519	33645	1.13	0.0E+00	AA149791.1	EST_HUMAN	zo01c06.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:568410 5'
7837	20532	33659	0.84	0.0E+00	BF026828.1	EST_HUMAN	601872310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
7849	20544	33672	0.45	0.0E+00	AA017021.1	EST_HUMAN	ze33h08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
7866	20561	33688	2.31	0.0E+00	BE736046.1	EST_HUMAN	60130565F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
7881	20576	33703	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33734	0.74	0.0E+00	AW674581.1	EST_HUMAN	bb34d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O84652 O84652 F17K2.26 PROTEIN.;
7909	20604	33735	0.74	0.0E+00	AW674581.1	EST_HUMAN	bb34d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O84652 O84652 F17K2.26 PROTEIN.;
7916	20611	33741	3.91	0.0E+00	AA397551.1	EST_HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	MRO-ST0031-081089-003-a11 ST0031 Homo sapiens cDNA
7921	20616	33743	0.73	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
7922	20617	33744	7.02	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
7926	20621	33748	1.63	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7926	20621	33749	1.63	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7942	20637	33764	1.09	0.0E+00	W95278.1	EST_HUMAN	ze05d01.r1 Soares fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:358081 5'
7942	20637	33765	1.09	0.0E+00	W95278.1	EST_HUMAN	ze05d01.r1 Soares fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:358081 5'
7944	20639	33765	6.89	0.0E+00	BF073096.1	EST_HUMAN	602163008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7948	20643	33765	0.67	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001298 5'
7962	20657	33782	0.96	0.0E+00	BF525634.1	EST_HUMAN	602069632F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7962	20657	33783	0.95	0.0E+00	BF525634.1	EST_HUMAN	602069632F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33813	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: ham2) Homo sapiens cDNA clone DKFZp761P092 5'
7992	20687	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: ham2) Homo sapiens cDNA clone DKFZp761P092 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8035	20730		1.32	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8037	20751	33892	2.48	0.0E+00	AW500549.1	EST_HUMAN	UHF-3NC-ak-f-01-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077496 5'
8085	20769	33888	16.05	0.0E+00	AW157233.1	EST_HUMAN	au83608.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]; xa07d12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2867639 3' similar to contains element OFR repetitive element;
8082	20776	33906	0.88	0.0E+00	AW072395.1	EST_HUMAN	
8089	20793	33924	1.09	0.0E+00	11421722	NT	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8102	20766	33927	1.07	0.0E+00	W016716.1	EST_HUMAN	z36605.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:294633 5'
8104	20798	33929	1.22	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926988 5'
8104	20798	33930	1.22	0.0E+00	BE745597.1	EST_HUMAN	601578196F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926988 5'
8115	20809	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8154	20848	33990	0.95	0.0E+00	AJ367350.1	EST_HUMAN	qv65c12.x1 NCI CGAP_UJ2 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
8166	20859	33991	2.63	0.0E+00	BE674157.1	EST_HUMAN	7d76a04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:O85783 O85783 STAUFEN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	AJ855671.1	EST_HUMAN	w60b10.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR;
8180	20874	34009	1.07	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3888655 5'
8180	20874	34010	1.07	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3888655 5'
8189	20883	34020	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8189	20883	34021	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	z66f02.r1 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8231	20926		4.53	0.0E+00	AA398511.1	EST_HUMAN	z73a08.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:727058 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.55	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0094-120600-013-107 FN0094 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8260	20954	34093	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8275	20969	34110	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST-E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8286	20980	34120	1.3	0.0E+00	A1884477.1	EST_HUMAN	wm33a11.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.;
8293	20987	34126	1.27	0.0E+00	AA502294.1	EST_HUMAN	ne25d10.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:882269 3' similar to TR:G1136434 G1136434 KIAA0187 PROTEIN.;
8298	20992		0.59	0.0E+00	11416799	NT	Homo sapiens protocadherin beta 3 (PCDH3), mRNA
8305	20999	34137	1.02	0.0E+00	A1580780.1	EST_HUMAN	ta04f11.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2043117 3'
8308	21002		1.84	0.0E+00	BE890797.1	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916689 5'
8334	21027	34163	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8335	21028	34166	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34189	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8339	21032	34170	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8404	21097	34233	0.66	0.0E+00	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLalphas (partial) genes
8409	21102	34239	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34240	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34241	2.63	0.0E+00	X98922.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8424	21117	34255	0.68	0.0E+00	U92976.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8465	21157	34300	0.88	0.0E+00	AF022855.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8465	21157	34301	0.88	0.0E+00	AF022855.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8468	21160	34303	2.28	0.0E+00	AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8483	21175	34320	0.65	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	xc46e01.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
8489	21181	34323	14.55	0.0E+00	D52680.1	EST_HUMAN	HUM084C02B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-084C02 5'
8520	21212	34356	4.04	0.0E+00	BE378495.1	EST_HUMAN	601236488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8528	21218	34390	2.58	0.0E+00	AA410545.1	EST_HUMAN	Z32e04.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:724062 5'
8528	21220		2.91	0.0E+00	BF513946.1	EST_HUMAN	601800571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
8540	21232	34374	1.46	0.0E+00	AW139073.1	EST_HUMAN	UI-H-B11-adr-e-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8540	21232	34376	1.48	0.0E+00	AW139073.1	EST_HUMAN	UI-H-B11-adr-e-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

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8545	21237		0.49	0.0E+00	AI640190.1	EST_HUMAN	wa30b10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2288578 3' similar to TR:O15044
8564	21266	34393	0.78	0.0E+00	BF377897.1	EST_HUMAN	O15044 KIAA0335 ;
8574	21266	34408	0.59	0.0E+00	AL163301.2	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
8580	21272	34410	6.89	0.0E+00	BE260272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
8585	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836 5'
8585	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8585	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21292	34434	0.53	0.0E+00	AL458722.1	EST_HUMAN	ik13h11.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150949 3'
8626	21318	34460	0.86	0.0E+00	AL449770.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Slavides GS) Homo sapiens cDNA
8631	21323	34484	7.75	0.0E+00	AA962527.1	EST_HUMAN	cr60g02.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 60S
8637	21328	34472	3.09	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
8637	21328	34473	3.09	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8660	21362	34499	1.3	0.0E+00	Y11107.3	NT	Homo sapiens ankyrin 1, erythrocyte (ANK1), transcript variant 1, mRNA
8662	21354	34501	1.62	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ITGB4 gene for Integrin beta 4 subunit, exons 3-41
8672	21364		1.91	0.0E+00	AV718377.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8679	21371	34516	3.33	0.0E+00	AW337277.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
8685	21377	34621	1.12	0.0E+00	AU124051.1	EST_HUMAN	xw73c07.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X53587
8761	21453	34601	1.05	0.0E+00	AU140704.1	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
8771	21463	34610	0.86	0.0E+00	AB007923.1	NT	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
8776	21468	34614	0.54	0.0E+00	R17132.1	EST_HUMAN	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'
8776	21468	34615	0.54	0.0E+00	R17132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
8780	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
8815	21507	34662	0.47	0.0E+00	AU128804.1	EST_HUMAN	hf48a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835088 3'
8827	21519	34684	1.04	0.0E+00	AV714764.1	EST_HUMAN	hf48a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835088 3'
8843	21535	34679	2.79	0.0E+00	AL040428.1	EST_HUMAN	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
8843	21535	34680	2.79	0.0E+00	AL040428.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA08 5'
							DKFZp434C1814_s1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C1814 3'
							DKFZp434C1814_s1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C1814 3'
							Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
8849	21540	34688	1.17	0.0E+00	AF133501.1	NT	
8851	21542	34689	2.03	0.0E+00	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8856	21549	34690	0.65	0.0E+00	BF675505.1	EST_HUMAN	602138483F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274708 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8860	21551		0.8	0.0E+00	BF056289.1	EST_HUMAN	7k2b03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476882 3' similar to TR:O36448 O36448 S GAG. ;
8869	21580	34720	3.97	0.0E+00	11422857	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34728	1.19	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
8905	21598	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8905	21598	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV680736.1	EST_HUMAN	AV680739 GLC Homo sapiens cDNA clone GLCCKG12 3'
8916	21607	34750	2.88	0.0E+00	7706838	NT	Homo sapiens polycystin-L (PKDL), mRNA
8921	21612	34755	0.5	0.0E+00	BE793326.1	EST_HUMAN	601588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
8922	21613	34756	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1261 protein, partial cds
8922	21613	34757	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1261 protein, partial cds
8934	21625		0.91	0.0E+00	H73937.1	EST_HUMAN	yu03h08.r1 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:232767 5'
8944	21635	34779	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8954	21645	34796	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89986.1	NT	Human polymorphic loci in Xq28
8959	21650	34800	3.66	0.0E+00	X14768.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
8960	21670	34820	2.03	0.0E+00	A061395.1	EST_HUMAN	an29e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8985	21675	34824	1.95	0.0E+00	A054607.1	EST_HUMAN	wq34a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN O15480 MELANOMA-ASSOCIATED ANTIGEN B3 ;
8989	21678	34828	4.65	0.0E+00	9256595	NT	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9000	21690	34840	1.42	0.0E+00	AW958311.1	EST_HUMAN	EST370381 MAGIE resequences, MAGIE Homo sapiens cDNA
9011	21701	34851	2.46	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
9026	21716	34869	1.53	0.0E+00	AU142662.1	EST_HUMAN	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'
9042	21732	34887	1.76	0.0E+00	11436895	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9043	21733		1.18	0.0E+00	BE410768.1	EST_HUMAN	601301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636183 5'
9056	21745	34904	1.83	0.0E+00	BF002024.1	EST_HUMAN	7697h12.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q9UJH62 Q9UJH62 HYPOTHETICAL 42.6 KD PROTEIN. ;
9070	21759	34920	1.1	0.0E+00	AB011150.1	NT	Homo sapiens mRNA for KIAA0578 protein, partial cds
9071	21760	34921	7.72	0.0E+00	BE794823.1	EST_HUMAN	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9075	21784	34926	0.89	0.0E+00	BE810292.1	EST_HUMAN	RC3-PT0151-280600-011-c05 PT0151 Homo sapiens cDNA
9075	21764	34927	0.99	0.0E+00	BE810292.1	EST_HUMAN	RC3-PT0151-280600-011-c05 PT0151 Homo sapiens cDNA
9078	21767	34930	2.83	0.0E+00	AU136229.1	EST_HUMAN	AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'

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9083	21772	34935	1.27	0.0E+00	BE883843.1	EST_HUMAN	801510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9083	21772	34936	1.27	0.0E+00	BE883843.1	EST_HUMAN	801510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9102	21780	34953	0.82	0.0E+00	AB011168.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
9106	21784	34957	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9108	21784	34958	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50503 Gall bladder 1 Homo sapiens cDNA 5' end
9164	21834	34998	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
9164	21834	34999	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
9198	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9198	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9209	22088	35260	1.61	0.0E+00	BF348013.1	EST_HUMAN	Bcl-xL mRNA, complete cds (MOUSE);
9244	21923	35093	2.77	0.0E+00	BE712515.1	EST_HUMAN	602023150F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4168300 5'
9277	22031	35201	0.88	0.0E+00	BF034377.1	EST_HUMAN	QV2-HT0698-250700-282-b08 HT0698 Homo sapiens cDNA
9277	22031	35202	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3859035 5'
9283	22037	35209	0.5	0.0E+00	AB063551.1	EST_HUMAN	601455116F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3859035 5'
9286	22040	36211	0.81	0.0E+00	5803069	NT	RC-BT108-040399-032 BT108 Homo sapiens cDNA Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9286	22040	36212	0.81	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9286	21963	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9331	21998	35171	1.28	0.0E+00	AI088043.1	EST_HUMAN	ow60h01.x1 Sceres_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1661249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN. ;
9338	20409	33524	0.72	0.0E+00	BF309982.1	EST_HUMAN	601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138086 5'
9340	20411	33527	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9340	20411	33528	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33531	9.88	0.0E+00	AI290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881288 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A. ;
9342	20413	33532	9.88	0.0E+00	AI290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881288 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A. ;
9343	20414	33533	1.99	0.0E+00	AW953836.1	EST_HUMAN	EST366026 IMAGE: ressequences, MAGC Homo sapiens cDNA
9370	21945	35117	3.07	0.0E+00	AF153466.1	NT	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
9373	21948	35121	0.66	0.0E+00	BE885128.1	EST_HUMAN	601610882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9373	21948	35122	0.68	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9382	22044		7.32	0.0E+00	BE255829.1	EST_HUMAN	601109942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9385	22047	35219	1.09	0.0E+00	BE781392.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9385	22047	35220	1.09	0.0E+00	BE781392.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
							au86c04.Y1 Schnelder fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072
9387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	60S RIBOSOMAL PROTEIN L7A (HUMAN);
9408	22071	35243	2.98	0.0E+00	BE263191.1	EST_HUMAN	601145034F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9427	22105	35278	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9427	22105	35279	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9428	22107	35282	2.63	0.0E+00	BE748215.1	EST_HUMAN	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9439	22117	35292	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35293	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35294	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9459	22009	35179	1.44	0.0E+00	BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958238 5'
9475	22128	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9489	22142	35321	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9522	22176	35359	0.94	0.0E+00	BE082977.1	EST_HUMAN	RC2-BT0842-130300-017-g01 BT0842 Homo sapiens cDNA
9541	22194	35379	1.74	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9541	22194	35380	1.74	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35386	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
9550	22203	35387	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
9552	22205	35388	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9552	22205	35389	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35400	0.54	0.0E+00	W56629.1	EST_HUMAN	zd16a1.1.1 Soares_fetal_heart_NBRH19W Homo sapiens cDNA clone IMAGE:340844 5'
9561	22214	35401	0.54	0.0E+00	W56629.1	EST_HUMAN	zd16a1.1.1 Soares_fetal_heart_NBRH19W Homo sapiens cDNA clone IMAGE:340844 5'
9572	22225	35410	1.83	0.0E+00	AB035358.1	NT	Homo sapiens mRNA for neurexin-1 alpha protein, complete cds
9576	22229		0.8	0.0E+00	AI124780.1	EST_HUMAN	am50a11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9578	22231	35415	3.59	0.0E+00	AW500526.1	EST_HUMAN	UI-HF-BN0-akg-c-07-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077384 5'
9624	22277	35486	1.53	0.0E+00	AF008666.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35499	2.23	0.0E+00	S78466.1	NT	AIIGF=androgen-induced growth factor AIIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9652	22304	35500	2.23	0.0E+00	S78466.1	NT	AIIGF=androgen-induced growth factor AIIGF [human, placenta, Genomic/mRNA, 498 nt, segment 6 of 5]
9655	22307	35505	2.93	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688680 5'
9674	22326	35521	1.84	0.0E+00	AW93135.1	EST_HUMAN	CM2-CT0311-301189-043-h11 CT0311 Homo sapiens cDNA
9682	22343	35537	0.46	0.0E+00	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
9693	22344	35538	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
9702	22353	35548	0.54	0.0E+00	BE206710.1	EST_HUMAN	5626c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2864000 3'
9719	22370	35568	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9728	22379	35581	0.77	0.0E+00	AW500336.1	EST_HUMAN	UI-HF-BP0p-ai-f-05-0-J1.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
9733	22384	35586	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9733	22384	35587	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9734	22385	35588	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9734	22385	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22398	35603	1.73	0.0E+00	7662067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35623	1.59	0.0E+00	AL042276.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9770	22421	35626	1.53	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2416 5'
9780	22431	35636	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9781	22432	35637	2.37	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35684	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9808	22459	35685	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22475	35678	1.81	0.0E+00	BF092698.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
9854	22504	35704	2.41	0.0E+00	BE280783.1	EST_HUMAN	601156227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35710	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	3.03	0.0E+00	AW236269.1	EST_HUMAN	xt72b01.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2889977 3' similar to gb:U02162_cde1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9874	22524	35718	1.06	0.0E+00	AA341305.1	EST_HUMAN	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
9904	22553	35748	0.97	0.0E+00	AW984113.1	EST_HUMAN	EST376186 MAGC resequences, MAGH Homo sapiens cDNA
9915	22564	35769	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9918	22667	35763	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9921	22669	35765	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9921	22669	35766	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9956	22604	35809	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9956	22604	35810	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9972	22620	35824	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RanBP7/importin7 and partial ZNF143 gene
9972	22620	35825	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RanBP7/importin7 and partial ZNF143 gene
9972	22620	35825	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RanBP7/importin7 and partial ZNF143 gene
9977	22625	35832	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKCDXA07 5'
9977	22625	35833	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKCDXA07 5'
9983	22631	35840	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9985	22633	35843	3.11	0.0E+00	AA186387.1	EST_HUMAN	z997h11.1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628197 5'
10011	22659	35873	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10011	22659	35874	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10056	22704	35922	1.44	0.0E+00	AF179308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10101	22748	35964	0.92	0.0E+00	BE880698.1	EST_HUMAN	601491565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:393657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10112	22760	35973	8.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10117	22765	35977	0.97	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22775	35988	0.87	0.0E+00	BE938511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10127	22775	35989	0.87	0.0E+00	BE938511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10144	22782	36007	0.88	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10154	22802	36020	0.87	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10155	22803	36021	1.01	0.0E+00	4768827	NT	Homo sapiens neurexin III (NRXN3) mRNA
10169	22814	36032	0.87	0.0E+00	BE881113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10169	22817	36035	1.13	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	22827	36041	1.72	0.0E+00	AB026290.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	601106459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	601106459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10183	22841	36056	1.06	0.0E+00	AA704457.1	EST_HUMAN	z19b06.e1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10185	22843	36057	0.74	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10187	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184939 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10197	22845	36081	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184939 5'
10222	22870	36082	0.83	0.0E+00	BE997149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10222	22870	36083	0.83	0.0E+00	BE997149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10252	22800	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 5'
10252	22800	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 5'
10282	22930	36143	2.36	0.0E+00	AI631818.1	EST_HUMAN	wa36d03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10282	22930	36144	2.36	0.0E+00	AI631818.1	EST_HUMAN	Q61204 NOTCH2-LIKE
10288	22936	36149	0.49	0.0E+00	11545730	NT	Q61204 NOTCH2-LIKE
10298	22945	36159	1.52	0.0E+00	T03078.1	EST_HUMAN	Homo sapiens Gigaxonin (GAN), mRNA
10323	22970	36190	0.64	0.0E+00	AU122429.1	EST_HUMAN	FB23A4 Fetal brain, Stratagene Homo sapiens cDNA clone FB23A4 3' end
10329	22976	36196	0.46	0.0E+00	6005921	NT	AV122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002388 5'
10348	22985	36214	2.5	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF Interacting) (TRIO), mRNA
10349	22986		0.97	0.0E+00	AV654765.1	EST_HUMAN	na4-5e12.x1 Scores_NSIF_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3286271 3'
10389	23015	36231	2.75	0.0E+00	AW517980.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCZC07 3'
10374	23020	36238	8.82	0.0E+00	BE548213.1	EST_HUMAN	xu74b01.x1 NCL_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M68068 MOESIN (HUMAN);
10389	23035	36251	0.75	0.0E+00	11436005	NT	601078784F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703 5'
10414	23060	36279	2.79	0.0E+00	BE781742.1	EST_HUMAN	Homo sapiens hypothetical protein DKFZp781P1010 (DKFZp781P1010), mRNA
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	601467419F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10435	23081	36308	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0642-150200-012-d03 BT0642 Homo sapiens cDNA
10442	23088	36316	0.66	0.0E+00	Y08032.1	NT	RC2-BT0642-150200-012-d03 BT0642 Homo sapiens cDNA
10448	23094	36325	0.86	0.0E+00	AI656890.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	II54607.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2244612 3'
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10459	23105	36335	2.49	0.0E+00	BE817655.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10459	23105	36336	2.49	0.0E+00	BE817655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845986 3'
10481	23127	36355	0.57	0.0E+00	H39805.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845986 3'
10508	23154	36380	1.01	0.0E+00	D87675.1	NT	yp01e10.r1 Scores_breast3N5HBst Homo sapiens cDNA clone IMAGE:188138 5'
10510	23156	36382	0.45	0.0E+00	AF081894.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10519	23165	36392	1.02	0.0E+00	BE172254.1	EST_HUMAN	Synthetic construct CD30 ligand-exonA fusion protein (CD30L-ETA fusion) mRNA, partial cds
10519	23165	36393	1.02	0.0E+00	BE172254.1	EST_HUMAN	MRO-HT0559-270300-005-e12 HT0559 Homo sapiens cDNA
10532	23229	36463	2.76	0.0E+00	AV711075.1	EST_HUMAN	MRO-HT0559-270300-008-e12 HT0559 Homo sapiens cDNA
							AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
10532	23229	36484	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW983563.1	EST_HUMAN	EST376638 IMAGE:394000000, MAGH Homo sapiens cDNA
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10556	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057621.1	EST_HUMAN	wy61009.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553085 3' similar to TR:Q60568 Q60568 VDX;
10567	23262	36489	1.6	0.0E+00	BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylar-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917
10568	23263	36500	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10568	23263	36501	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10573	23268	36506	1.54	0.0E+00	BF306642.1	EST_HUMAN	MSR1 MSR1 repetitive element;
10580	23275	36512	5.08	0.0E+00	11545911	NT	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122849 5'
10580	23275	36513	5.08	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10586	23290	36528	1.98	0.0E+00	AW404795.1	EST_HUMAN	Homo sapiens NOD2 protein (NOD2), mRNA
10600	23294	36533	3.17	0.0E+00	11424829	NT	UI-HF-BLO-acm-d-04-UJ.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 5'
10601	23295	36534	7.47	0.0E+00	4504538	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10601	23295	36535	7.47	0.0E+00	4504538	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10602	23296	36536	3.68	0.0E+00	AI691827.1	EST_HUMAN	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10605	23299	36540	4.48	0.0E+00	BE882109.1	EST_HUMAN	wu32506.x1 Soares Dieckgrafe_colon_NHCD Homo sapiens cDNA clone IMAGE:2521716 3'
10609	23303	36542	8.24	0.0E+00	BE891630.1	EST_HUMAN	601605204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906865 5'
10612	23308	36544	1.68	0.0E+00	8923939	NT	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3910636 5'
10612	23308	36545	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36551	1.4	0.0E+00	AB014608.1	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36552	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	Homo sapiens mRNA for KIAA0708 protein, partial cds
10631	18484	31403	1.65	0.0E+00	AA195905.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10652	23343	36581	5.53	0.0E+00	BE793498.1	EST_HUMAN	zp95b11.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:627633 5' similar to gb:X03740
10660	23351	36588	1.79	0.0E+00	BE729706.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10660	23351	36589	1.78	0.0E+00	BE729706.1	EST_HUMAN	601588829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943015 5'
10661	23351	36590	33.69	0.0E+00	AV727362.1	EST_HUMAN	601562884F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3932575 5'
10661	23351	36590	33.69	0.0E+00	AV727362.1	EST_HUMAN	601562884F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3932575 5'
10661	23352	36590	33.69	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10661	23352	36591	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH08 5'
10674	23365	36608	9.59	0.0E+00	AW516055.1	EST_HUMAN	xx04g10.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S18 (HUMAN);
10680	23371	36613	3.18	0.0E+00	AU135741.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002784 5'
10686	23377	36617	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2846476 3' similar to contains element MSR1 repetitive element;
10688	23377	36618	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2846475 3' similar to contains element MSR1 repetitive element;
10688	23377	36619	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2846475 3' similar to contains element MSR1 repetitive element;
10688	23379	36620	1.89	0.0E+00	Z34897.1	NT	H.sapiens mRNA for H1 histamine receptor
10689	23380	36621	2.97	0.0E+00	F13069.1	EST_HUMAN	HSC3IC031 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03
10700	23391	36629	1.79	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10708	23396	36634	1.33	0.0E+00	4758281	NT	Homo sapiens Epha7 (EPHA7) mRNA
10706	23396	36635	1.33	0.0E+00	4768281	NT	Homo sapiens Epha7 (EPHA7) mRNA
10718	23407	36648	2.13	0.0E+00	AW338084.1	EST_HUMAN	xx66601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832085 3' similar to gb:X17116 IG MU CHAIN C REGION (HUMAN);
10719	23408	36649	4.62	0.0E+00	AW451230.1	EST_HUMAN	UIH-B13-ah-a-01-0-J1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10719	23408	36650	4.62	0.0E+00	AW451230.1	EST_HUMAN	UIH-B13-ah-a-01-0-J1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10721	13021		11.67	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10723	23411	36652	2.53	0.0E+00	AB014567.1	NT	Homo sapiens mRNA for KIAA0687 protein, partial cds
10738	23425	36670	1.98	0.0E+00	BE298449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
10754	23439	36683	2.04	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
10763	23447	36697	1.71	0.0E+00	AU124106.1	EST_HUMAN	AU124106 NT2RM2 Homo sapiens cDNA clone NT2RM2001875 5'
10771	23454	36698	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10771	23454	36698	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10776	23459	36702	4.04	0.0E+00	BE792155.1	EST_HUMAN	6011582046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'
10777	23460		59.14	0.0E+00	BF684081.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
10778	23461	36703	1.3	0.0E+00	BE269288.1	EST_HUMAN	601186342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3644259 5'
10781	23464	36706	5.6	0.0E+00	AU118386.1	EST_HUMAN	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
10786	23469	36710	6.53	0.0E+00	A149809.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10786	23469	36711	6.53	0.0E+00	A149809.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10787	23470	36712	3.04	0.0E+00	AW391937.1	EST_HUMAN	QV4-ST0234-121199-032-506 ST0234 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798	23481	36722	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36726	9.57	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
10814	23497	36733	1.42	0.0E+00	AW604516.1	EST_HUMAN	QV0-UM0083-170400-191-406 UM0083 Homo sapiens cDNA
10814	23497	36734	1.42	0.0E+00	AW604516.1	EST_HUMAN	QV0-UM0083-170400-191-406 UM0083 Homo sapiens cDNA
10815	23498	36735	1.6	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Brf64 Homo sapiens cDNA clone IMAGE:4184979 5'
10817	23500	36738	52.94	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743	2.37	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36746	1.89	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
10828	23510	36750	3.47	0.0E+00	U50328.1	NT	Human protein kinase C substrate 80K-H (PRKGSH) gene, exon 15-17
10832	23514	36755	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-407 FT0134 Homo sapiens cDNA
10832	23514	36756	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-407 FT0134 Homo sapiens cDNA
10838	23520	36762	1.47	0.0E+00	W21826.1	EST_HUMAN	57E10 Human retina cDNA Tap5081-cleaved sublibrary Homo sapiens cDNA not directional
10854	23534	36779	138.91	0.0E+00	AA740782.1	EST_HUMAN	cb32407.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element
10857	23537	36783	2.05	0.0E+00	AW466922.1	EST_HUMAN	MSR1 repetitive element:
10863	23543	36790	2.91	0.0E+00	AF262303.1	NT	he04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
10879	23559	36806	7.34	0.0E+00	CO5089.1	EST_HUMAN	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10886	23566	36814	2.31	0.0E+00	AA746376.1	EST_HUMAN	CO5089 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH04817
10888	23568	36816	2.31	0.0E+00	AA746375.1	EST_HUMAN	ca56h01.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	ca56h01.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	EST00586 Fetal brain, Strategene (cat#936206) Homo sapiens cDNA clone HFBCC28
10898	23578	36827	6.82	0.0E+00	AL157608.1	EST_HUMAN	EST00586 Fetal brain, Strategene (cat#936206) Homo sapiens cDNA clone HFBCC28
10910	23590	36836	5.81	0.0E+00	AU116988.1	EST_HUMAN	DKFZp761J2116_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5'
10924	23604	36863	1.64	0.0E+00	AV693656.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10932	23612	36862	2.09	0.0E+00	BF366553.1	EST_HUMAN	AV693656 GKC Homo sapiens cDNA clone GKCNC03 5'
10955	18399	31311	2.73	0.0E+00	AB035268.1	NT	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31312	2.73	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuraxin II, complete cds
10960	23636	36887	2.64	0.0E+00	BE182360.1	EST_HUMAN	Homo sapiens mRNA for neuraxin II, complete cds
10960	23636	36888	2.64	0.0E+00	BE182360.1	EST_HUMAN	PM0-H10645-060500-002-E05 HT0645 Homo sapiens cDNA
10961	23637		1.4	0.0E+00	AV701152.1	EST_HUMAN	PM0-H10645-060500-002-E05 HT0645 Homo sapiens cDNA
10980	23655	36908	4.07	0.0E+00	BE899423.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAD06 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10989	23663	36919	1.85	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10989	23663	36920	1.85	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10992	23668	36923	2.39	0.0E+00	BE018293.1	EST_HUMAN	bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048488 5' similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X86563 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23688	36949	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36950	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36951	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	25133	36984	1.27	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11028	25133	36985	1.27	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23706	36974	8.73	0.0E+00	BE897953.1	EST_HUMAN	601440-46F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23708	36977	1.89	0.0E+00	AI450545.1	EST_HUMAN	ac88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23708	36978	1.89	0.0E+00	AI450545.1	EST_HUMAN	ac88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36992	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
11083	23763	37028	1.81	0.0E+00	10880382	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23755	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
11086	23766	37032	2.87	0.0E+00	BF206561.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23761	37038	12.22	0.0E+00	AW207734.1	EST_HUMAN	UI-H-BI2-age-h-01-Q-UJ.st NCL_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11096	23768	37040	4.23	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11096	23768	37041	4.23	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23768	37043	2.89	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN. ;
11098	23768	37044	2.89	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN. ;
11110	23780	37065	1.9	0.0E+00	11628409	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
11124	23793	37069	1.52	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.5	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11131	23769	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11131	23769	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11154	23821	37101	1.98	0.0E+00	AW679469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
11154	23821	37102	1.96	0.0E+00	AW679469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11176	23843	37128	6.21	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-ack-b-10-Q-U1.s1 NCI_CGAP_SubB Homo sapiens cDNA clone IMAGE:3085028 3'
11176	23843	37129	6.21	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-ack-b-10-Q-U1.s1 NCI_CGAP_SubB Homo sapiens cDNA clone IMAGE:3085028 3'
11185	23850	37136	1.57	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11189	23854	37140	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11189	23854	37141	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11190	23855	37142	1.67	0.0E+00	BF086811.1	EST_HUMAN	RC3-GN0089-190800-011-c06 GN0089 Homo sapiens cDNA
11192	23857	37143	5.5	0.0E+00	BE878401.1	EST_HUMAN	601489828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11192	23857	37144	5.5	0.0E+00	BE878401.1	EST_HUMAN	601489828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11199	23864	37150	1.94	0.0E+00	D87682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11204	23868		5.95	0.0E+00	BF240538.1	EST_HUMAN	601875630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4089710 5'
11218	23881	37169	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1318 protein, partial cds
11218	23881	37167	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1318 protein, partial cds
11222	23885	37170	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11222	23885	37171	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11230	23893	37179	1.8	0.0E+00	AA772837.1	EST_HUMAN	ee74g04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:968942 3'
11241	23903	37192	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11241	23903	37193	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11244	23905	37198	6.16	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11251	23913	37205	1.36	0.0E+00	BF578267.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11254	23916	37209	5.84	0.0E+00	AW328173.1	EST_HUMAN	gr04g05.xt NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11258	23920		71.88	0.0E+00	M55083.1	NT	Human gamma actin-like pseudogene, complete cds
11284	23926	37216	2.93	0.0E+00	BF306896.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11284	23926	37217	2.93	0.0E+00	BF306896.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11271	23932	37225	105.67	0.0E+00	BF362462.1	EST_HUMAN	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
11291	23952	37249	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11291	23952	37250	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11296	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	601439803F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11296	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	Homo sapiens fyn-related kinase (FRK) mRNA
11310	23969	37271	3.55	0.0E+00	8923688	NT	Homo sapiens gadin-like protein (GLP), mRNA
11313	23972		2.69	0.0E+00	BF207682.1	EST_HUMAN	601881947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11314	23973		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3357384 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN. ;
11327	24018	37322	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN. ;
11329	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	Q1V0-CT0225-101289-071-f06 CT0225 Homo sapiens cDNA
11334	24025		3.06	0.0E+00	AA558707.1	EST_HUMAN	n42c08.s1 NCL_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M06178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	AI934954.1	EST_HUMAN	wp06g09.x1 NCL_CGAP_K1d12 Homo sapiens cDNA clone IMAGE:2464084 3'
11336	24026	37330	7.45	0.0E+00	AW227895.1	EST_HUMAN	af02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11353	25134	37348	1.89	0.0E+00	AW29276.1	EST_HUMAN	U1H-BW10-ajl-d-07-q-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11362	23173	36401	2.2	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11368	23975	37276	1.73	0.0E+00	BE264058.1	EST_HUMAN	601113903f1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354600 5'
11371	23978	37278	1.74	0.0E+00	BE985909.2	EST_HUMAN	601659088f1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11371	23978	37279	1.74	0.0E+00	BE985909.2	EST_HUMAN	601659088f1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11372	23979	37280	4.52	0.0E+00	BE185656.1	EST_HUMAN	IL5-HT0731-020500-077-f05 HT0731 Homo sapiens cDNA
11373	23980		1.29	0.0E+00	BF513960.1	EST_HUMAN	U1H-BW1-arrv-a-05-o-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071121 3'
11387	23993	37294	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23993	37285	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11397	24003	37306	5.99	0.0E+00	AI923116.1	EST_HUMAN	wn83g03.x1 NCL_CGAP_U1 Homo sapiens cDNA clone IMAGE:2462468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCL_CGAP_QCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686 Q13686 ALKB HOMOLOG PROTEIN. ;
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCL_CGAP_QCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686 Q13686 ALKB HOMOLOG PROTEIN. ;
11408	24055	37360	1.94	0.0E+00	BE910546.1	EST_HUMAN	601601090f1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902926 5'
11418	23183	36413	7.9	0.0E+00	BE678347.1	EST_HUMAN	7127f12.x1 NCL_CGAP_C11 Homo sapiens cDNA clone IMAGE:3295919 3' similar to TR:O00409 O00409 CHECKPOINT SUPPRESSOR 1. ;
11419	23186	36416	1.79	0.0E+00	BE615688.1	EST_HUMAN	6012789335f1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11418	23183	36417	1.79	0.0E+00	BE615688.1	EST_HUMAN	6012789335f1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11426	23193	36424	1.81	0.0E+00	AV757420.1	EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11457	24061	37367	1.52	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	Homo sapiens polyomavirus kidney disease-associated protein (PKD1) gene, complete cds
11461	24084	37371	10.31	0.0E+00	L39891.1	NT	Homo sapiens polyomavirus kidney disease-associated protein (PKD1) gene, complete cds
11478	24072	37387	4.69	0.0E+00	AI1138211.1	EST_HUMAN	AI138211 PLACE1 Homo sapiens cDNA clone PLACE1089077 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11491	24092	37404	1.92	0.0E+00	BE622317.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918270 6'
11518	24118	37428	1.42	0.0E+00	AI698634.1	EST_HUMAN	fm94c10.x5 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11528	24129	37434	13.79	0.0E+00	BE748899.1	EST_HUMAN	601672186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11529	24129	37436	13.79	0.0E+00	BE748899.1	EST_HUMAN	601672186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11639	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11639	24139	37448	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	wz91h01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2
11546	25135	37495	3.49	0.0E+00	BF002393.1	EST_HUMAN	7h22b10.x1 NCI_CGAP_C016 Homo sapiens cDNA clone IMAGE:3316899 3' similar to TR:Q13458 Q13458
11571	24170	37485	2.88	0.0E+00	AW387776.1	EST_HUMAN	TRIO.1
11571	24170	37486	2.88	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	MR3-SN0010-310300-107-b03 SN0010 Homo sapiens cDNA
11608	24206	37529	5.87	0.0E+00	U36253.1	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11632	24229	37553	2.22	0.0E+00	BE794758.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
11634	24231	37554	45.09	0.0E+00	BE879633.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37560	1.82	0.0E+00	4758827	NT	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37561	1.82	0.0E+00	4758827	NT	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11644	24241	37565	1.65	0.0E+00	AF053543.1	NT	601590598F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11648	24243	37572	1.56	0.0E+00	AL163204.2	NT	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3694220 5'
11653	24250	37572	14.06	0.0E+00	BE409993.1	EST_HUMAN	Homo sapiens neurixin III (NRXN3) mRNA
11654	24251	37573	1.46	0.0E+00	BE148650.1	EST_HUMAN	Homo sapiens neurixin III (NRXN3) mRNA
11655	24252	37574	2.69	0.0E+00	AF223391.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11655	24252	37575	2.69	0.0E+00	AF223391.1	NT	Homo sapiens chromosome 21 segment HS21C004
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Homo sapiens cDNA clone IMAGE:3629544 5'
11657	18187	30879	1.29	0.0E+00	D26535.1	NT	MIRO-H10241-150500-011-402 HT0241 Homo sapiens cDNA
11658	24254	37576	5.8	0.0E+00	BF681641.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11658	24254	37577	5.8	0.0E+00	BF681641.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11657	18187	30879	1.29	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.8	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'
11658	24254	37577	5.8	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11662	24258		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11664	17606	30593	1.5	0.0E+00	AF272663.1	NT	Homo sapiens gephyrin mRNA, complete cds
11667	24262	37586	1.71	0.0E+00	AU132840.1	EST_HUMAN	AU132840 NT2RP4 Homo sapiens cDNA clone NT2RP400029 5'
11670	24265	37588	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11667	24262	37604	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11667	24262	37605	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11728	25136		15.74	0.0E+00	BF309120.1	EST_HUMAN	601690534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
11737	24330	37654	11.96	0.0E+00	BE297175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632868 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11765	24375	37705	1.69	0.0E+00	BE257698.1	EST_HUMAN	601114240F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354872 5'
11780	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151299-001-c11 BT0348 Homo sapiens cDNA
11790	24380	37711	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151299-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11797	24387	37720	2.48	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11797	24387	37721	2.48	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11808	14946		1.31	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	18891	31859	2.45	0.0E+00	U07223.1	NT	Human beta2-chimaerin mRNA, complete cds
11822	24407	37741	5.54	0.0E+00	Z31706.1	NT	H.sapiens GLAST1 gene for glial glutamate transporter, exon8
11835	24419	37760	2.26	0.0E+00	A656185.1	EST_HUMAN	tt38f02.x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51859 G2/MITOTIC-SPECIFIC CYCLIN G1.
11878	25399	30600	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11893	25257		3.89	0.0E+00	A1190983.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11902	24468		1.6	0.0E+00	A5011399.1	NT	qet17b12.x1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
11921	24482		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11929	24488		4.1	0.0E+00	11417862	NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	5802973	NT	Homo sapiens calneurin binding protein 1 (KIAA0330), mRNA
11982	25218	30816	2.59	0.0E+00	AF240786.1	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11993	25226		5.39	0.0E+00	AL041931.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							DKFZp434K0819_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5'

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12015	25369		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.81	0.0E+00	AL046544.1	EST_HUMAN	DKFZp434G218.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G218.5
12037	25261		1.68	0.0E+00	AI903487.1	EST_HUMAN	IL-BT030-271098-007 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	NS4484.1	EST_HUMAN	y40e08.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL_BAEVM P10272 POL POLYPROTEIN ;
12089	24594		5.88	0.0E+00	AF106656.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12092	13593	26282	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12092	13593	26283	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25284		2.21	0.0E+00	10092587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12218	25198	30814	2.63	0.0E+00	AW560082.1	EST_HUMAN	hg31e08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12229	25248		1.34	0.0E+00	BE090210.1	EST_HUMAN	RC6-BT0711-280300-011-D05 BT0711 Homo sapiens cDNA
12273	25258		4.43	0.0E+00	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12308	24732		3.36	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
12351	25252		2.41	0.0E+00	A1204914.1	EST_HUMAN	an05h04.x1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'
12383	24778		1.88	0.0E+00	A1904646.1	EST_HUMAN	QV-BT065-020399-103 BT065 Homo sapiens cDNA
12405	14718	27436	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24789	31039	2.08	0.0E+00	AF036365.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12435	14424	27119	2.76	0.0E+00	H30132.1	EST_HUMAN	y059e08.r1 Soares breast 3NbhBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M84089
12435	14424	27120	2.76	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12448	24816		10.68	0.0E+00	D50659.1	NT	GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12448	24816	31020	2.51	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12448	24818	31021	2.51	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12454	14817	27649	1.53	0.0E+00	4758489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12502	24856		1.5	0.0E+00	AW604699.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12538	13953	26617	2.09	0.0E+00	8922593	NT	h186a06.x1 Soares_NFL_I_G8C_S1 Homo sapiens cDNA clone IMAGE:2878154 3'
12544	24894		1.88	0.0E+00	11526291	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
12588	16089	28718	4.24	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
							Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

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Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17905	30592	3.05	0.0E+00	6808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12582	24905		2.12	0.0E+00	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31009	2.06	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
12648	25410		2.66	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12654	13390	26021	2.77	0.0E+00	6808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24999	30972	1.5	0.0E+00	11417662	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12735	25004		4	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
12760	25042	30987	1.76	0.0E+00	AW025032.1	EST_HUMAN	wu93c07.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:2527596 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN ; contains TAR1.3 TAR1 repetitive element ;
12808	13890	26550	1.37	0.0E+00	9969844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

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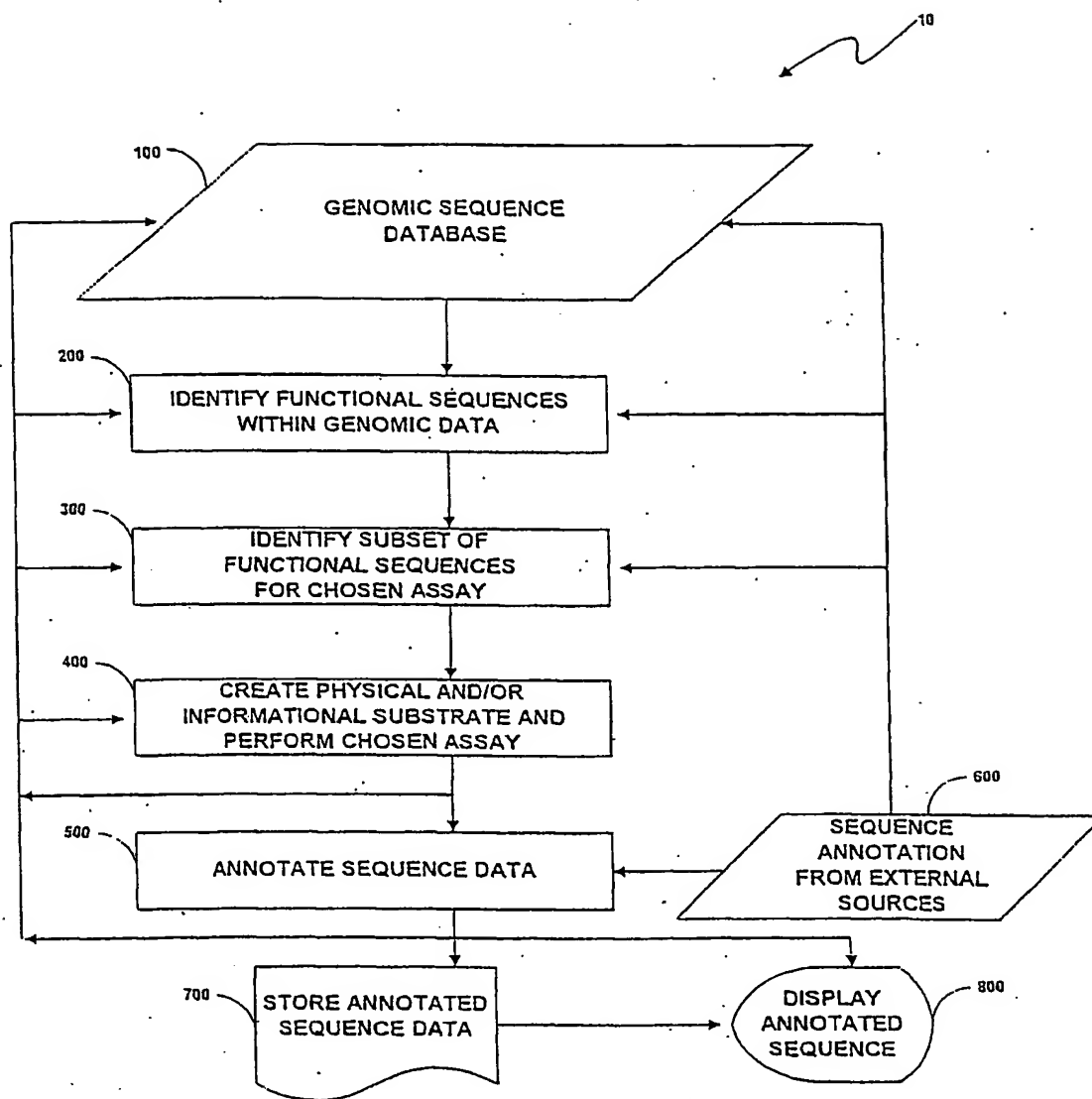


Fig. 1

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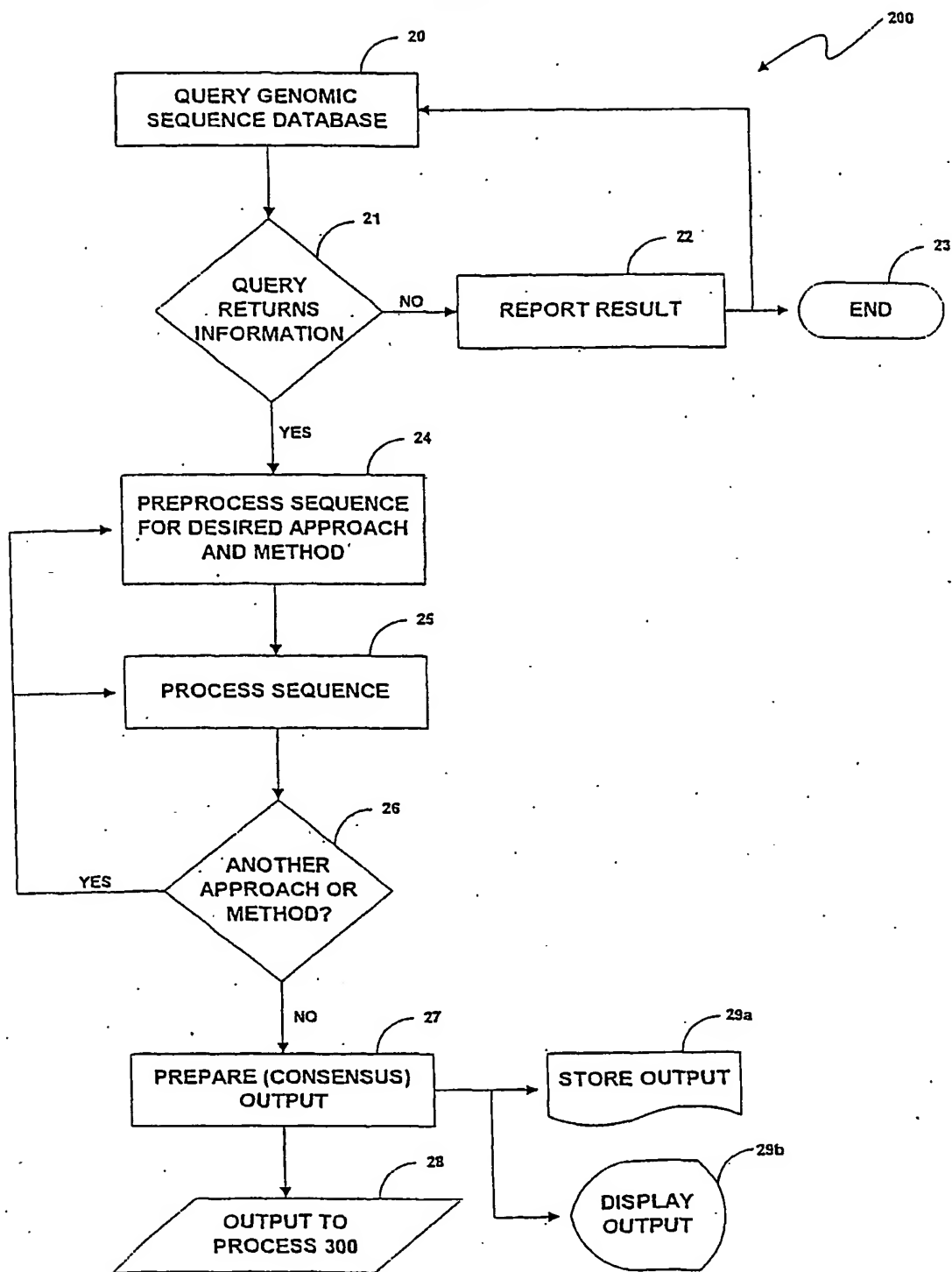
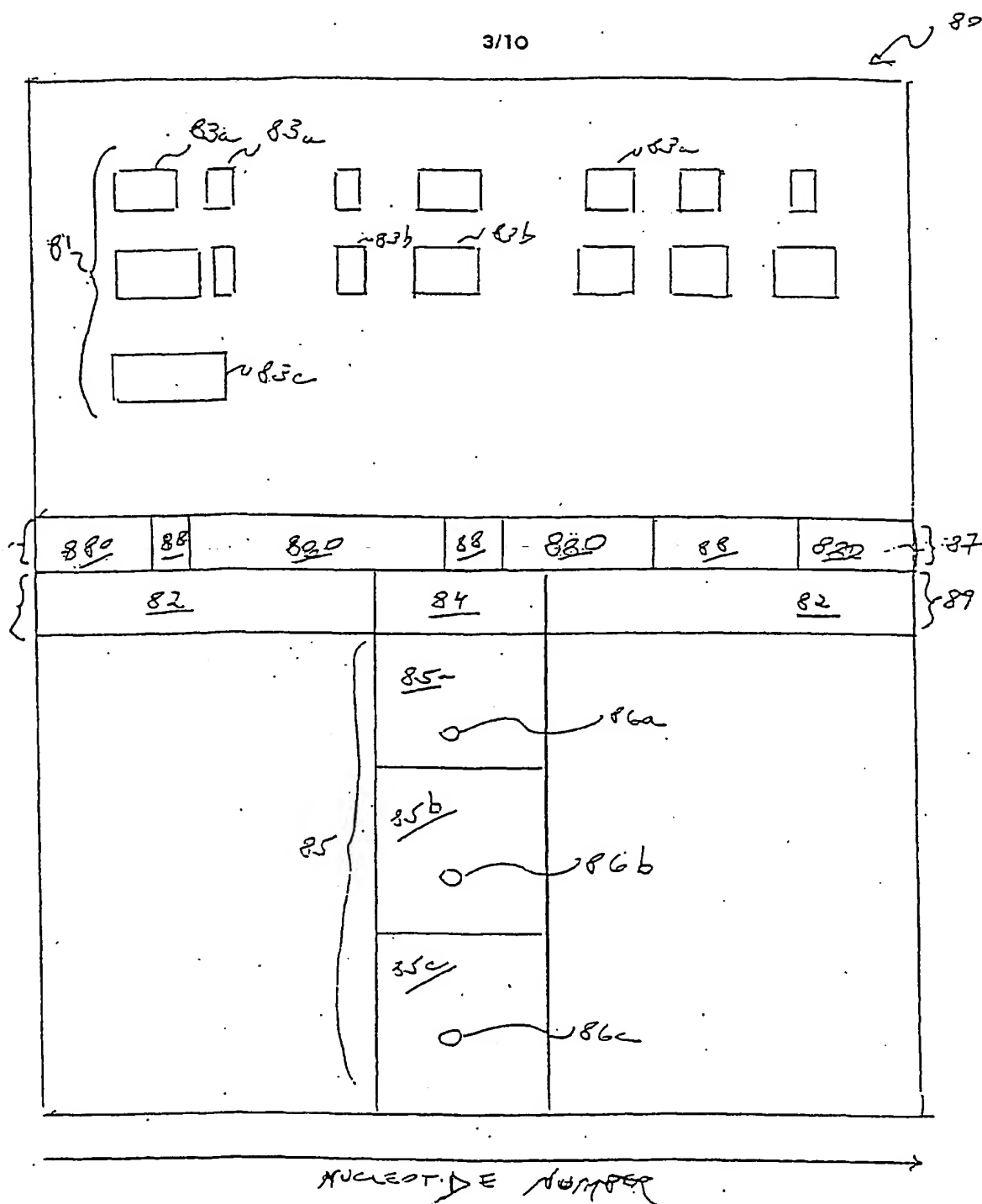


Fig. 2

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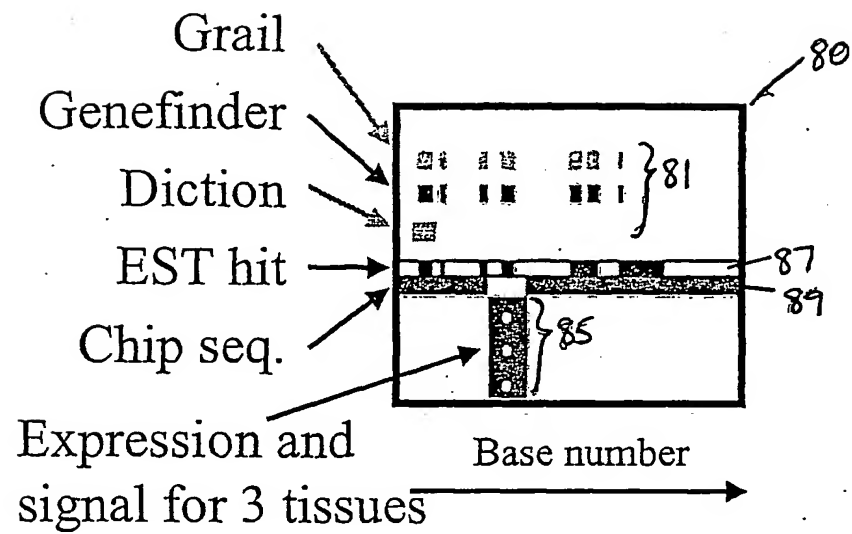


Fig. 4

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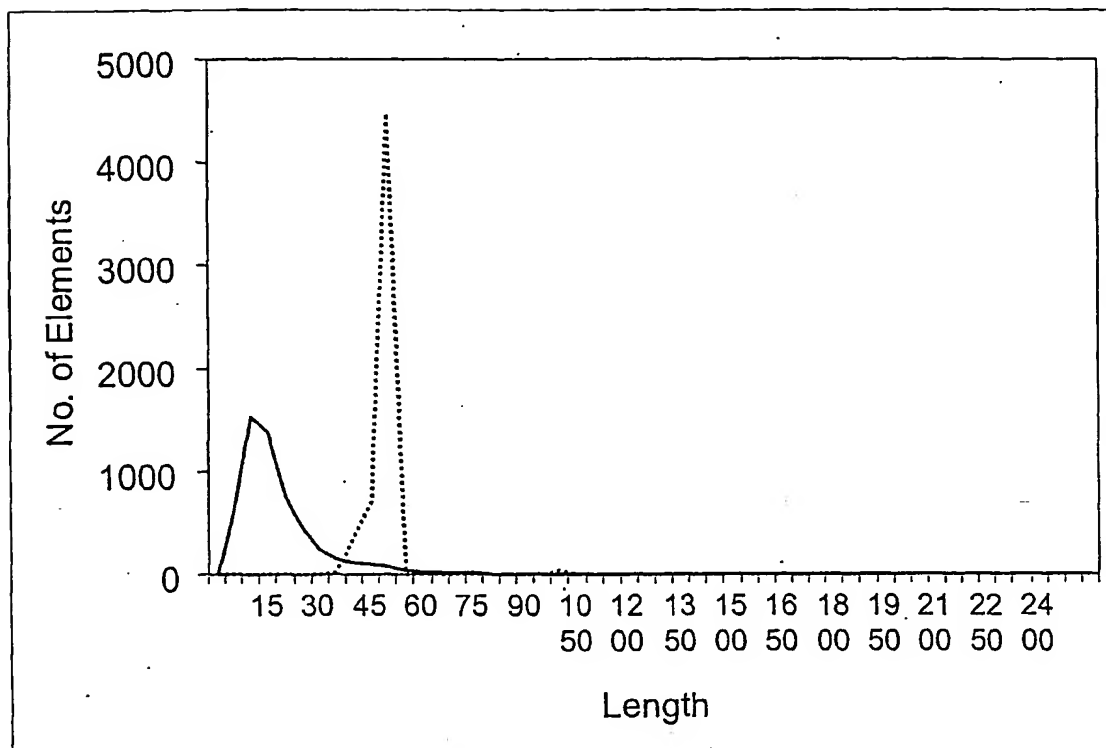


Fig. 5

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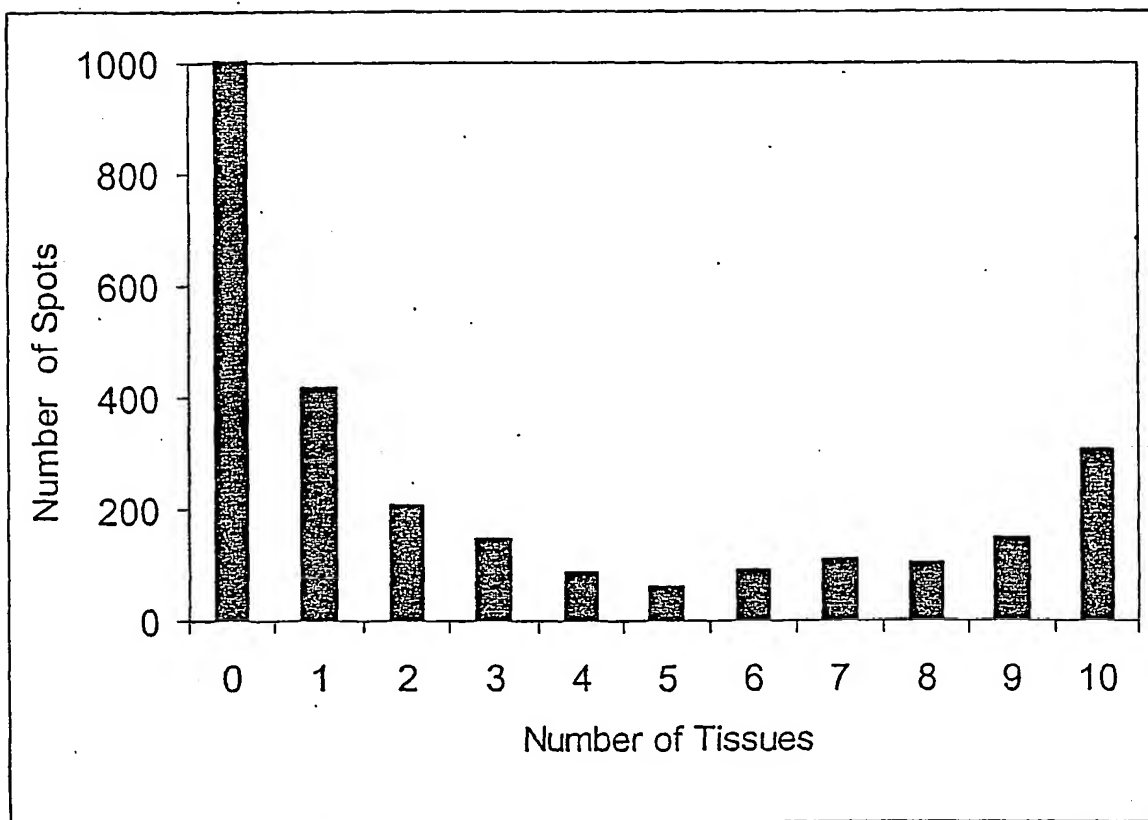
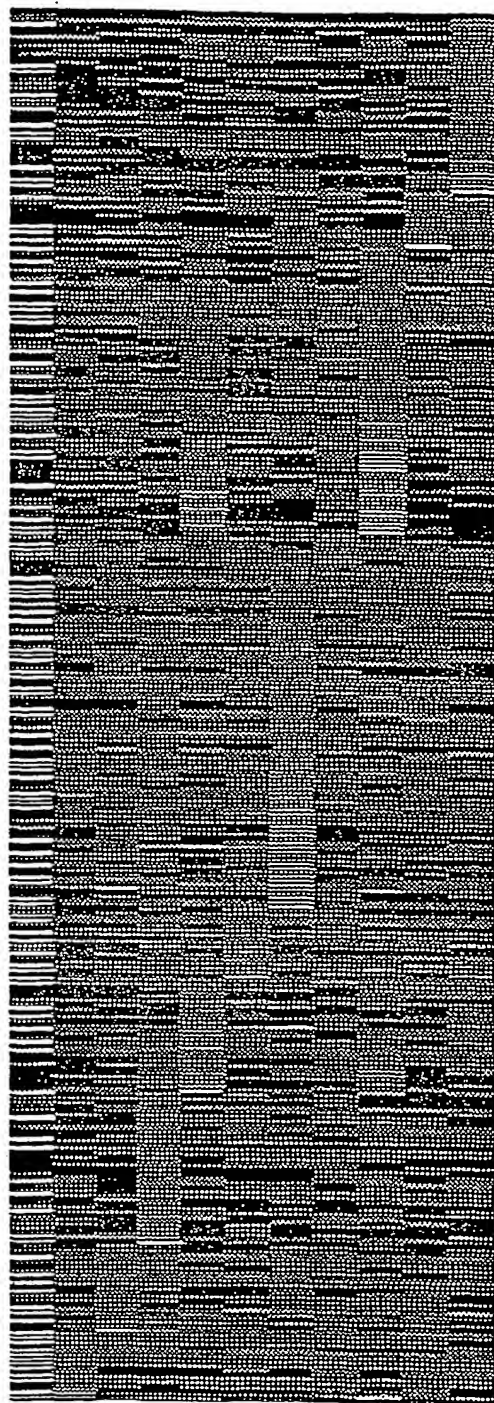


Fig. 6



EST Hit
Bone Marrow
Brain
BT474
Fetal Liver
HBL100
Heart
Hela
Liver
Lung
Placenta

Fig. 7a

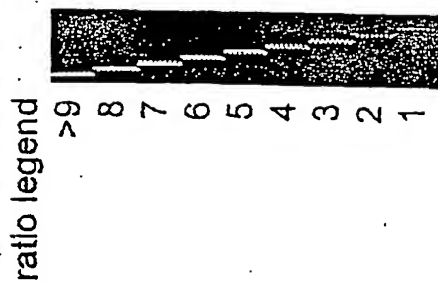


Fig. 7b

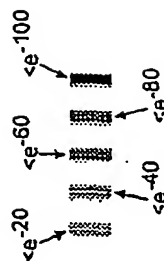


Fig. 7c

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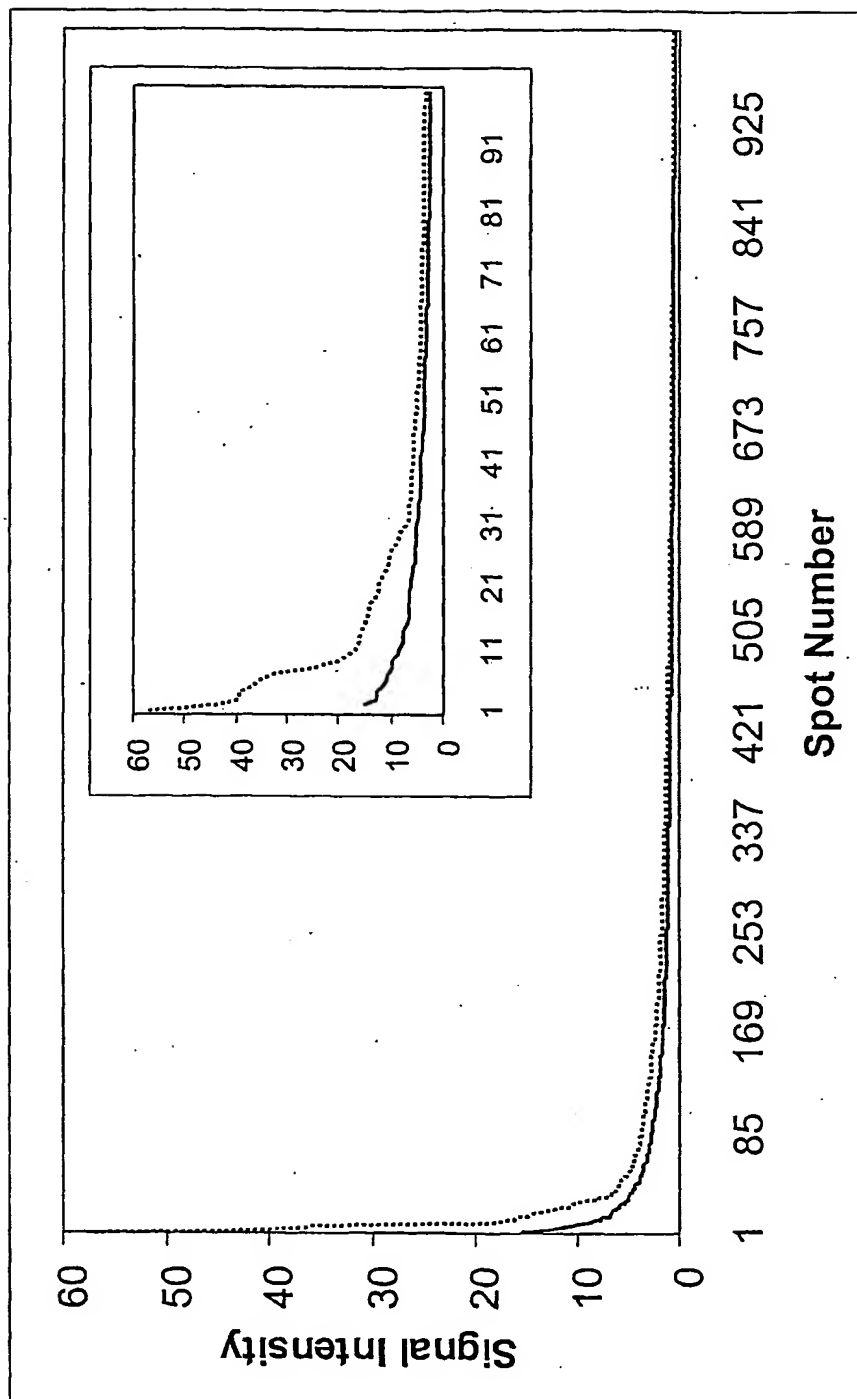


Fig. 8

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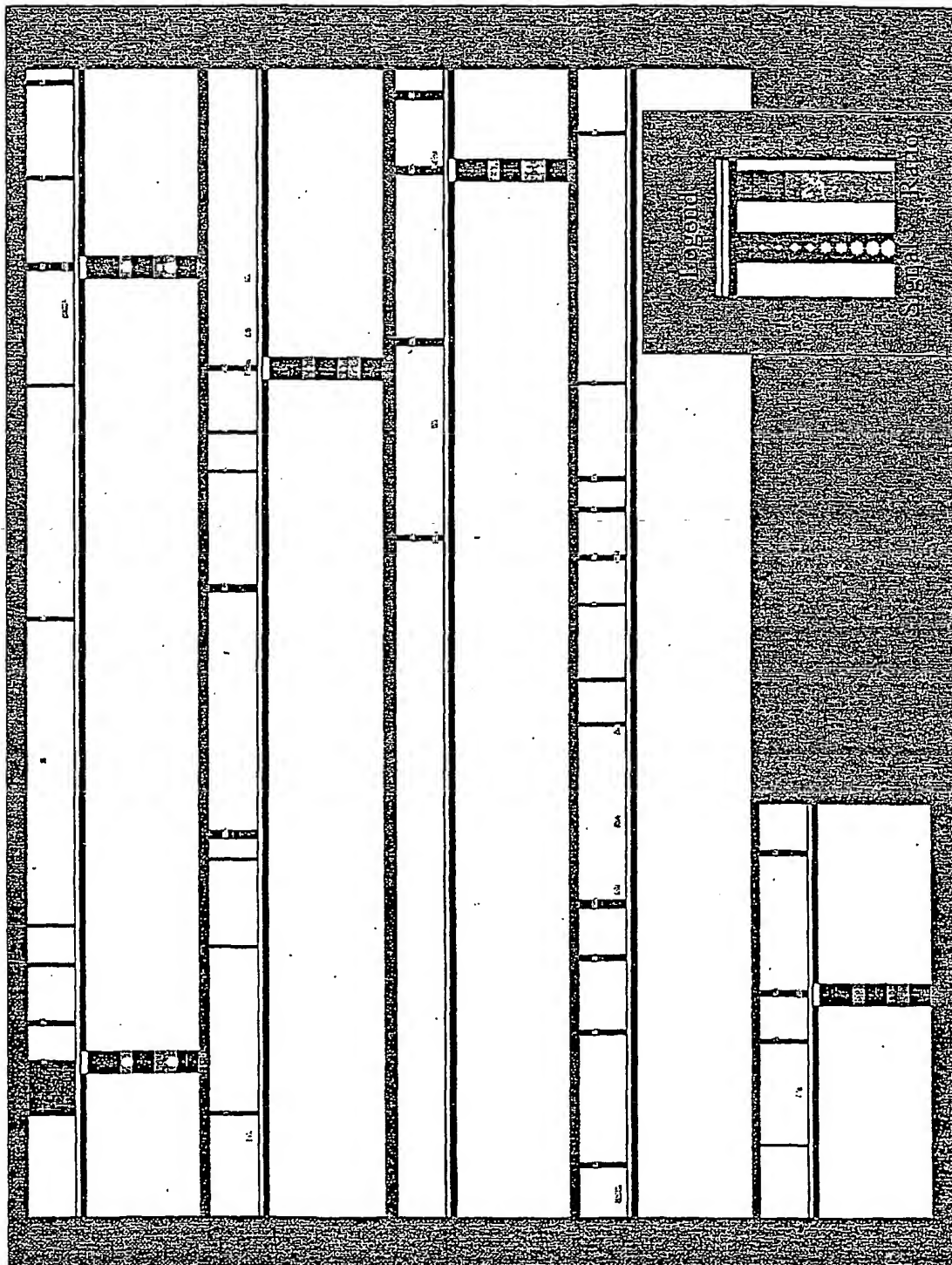


Fig. 9

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Fig. 10

